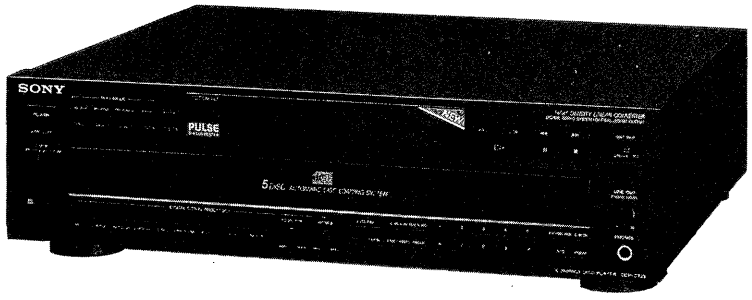
CDP-C725

SERVICE MANUAL

US Model
Canadian Model



Model Name Using Similar Mechanism	CDP-C715
CD Mechanism Type	CDM16N5
Optical Pick-Up Block Type	BU-5BD8B

SPECIFICATIONS

Compact Disc Player

System	Compact disc digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	20 Hz – 20 kHz ($\pm$0.3 dB)
Signal to noise ratio	More than 115 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0025%
Channel separation	More than 110 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kiloohms, non DSP mode) Load impedance over 10 kiloohms
LINE OUT (VARIABLE) (phono jacks)	Output level max 2 V (at 50 kiloohms, non DSP mode) Load impedance over 10 kiloohms
DIGITAL OUTPUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level –18 dBm
PHONES (stereo phone jack)	Output level max. 15 mW Load impedance 32 ohms

General

Power requirements	USA and Canada models: 120 V AC, 60 Hz
Power consumption	18 W
Dimensions (w/h/d)	Approx. 430 × 125 × 385 mm (17 × 5 × 15 1/4 inches) Including projecting parts and controls
Weight	Approx. 6.5 kg (14 lbs 5 oz), net

Remote Commander RM-D715

Remote control system	Infrared control
Power requirements	3 V DC with two size AA batteries (IEC designation R6)
Dimensions	62 × 20 × 175 mm (w/h/d) (2 1/2 × 13/16 × 7 inches)
Weight	130 g (4.6 oz) including batteries

Supplied Accessories

Connecting cord
(2 phono plugs ↔ 2 phono plugs) (1)
Remote commander (1)
Sony SUM-3 (NS) batteries (2)

Design and specifications are subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

COMPACT DISC PLAYER

SONY®

TABLE OF CONTENTS

Section *Title* *Page*

specifications ····· 1

1. GENERAL
Location of Controls ····· 4
Preparing the Remote Commander ····· 5

2. DISASSEMBLY ····· 6

3. ADJUSTMENT ····· 8

4. DIAGRAMS
4-1. Circuit Boards Location ····· 11
4-2. Semiconductor Lead Layouts ····· 11
4-3. IC Block Diagram ····· 12
4-4. Printed Wiring Boards ····· 15
4-5. Schematic Diagram ····· 19

5. EXPLODED VIEWS
5-1. Front Panel ····· 25
5-2. Cabinet ····· 26
5-3. Disc Tray ····· 27
5-4. Chassis ····· 28
5-5. Optical Pick-up Block ····· 29

8. ELECTRICAL PARTS LIST ····· 30

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

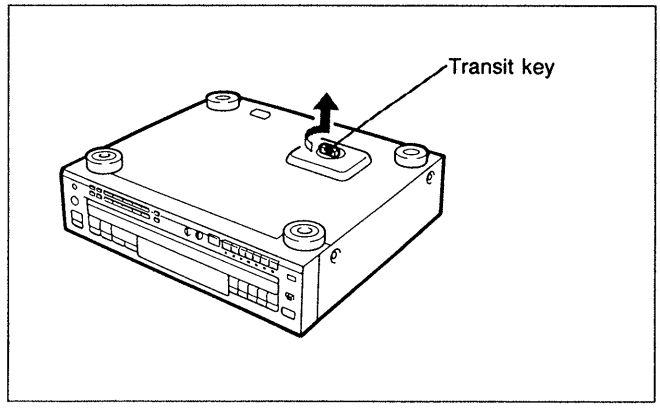
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30cm away from the objective lens.

Note on the Transit Key

The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer :
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

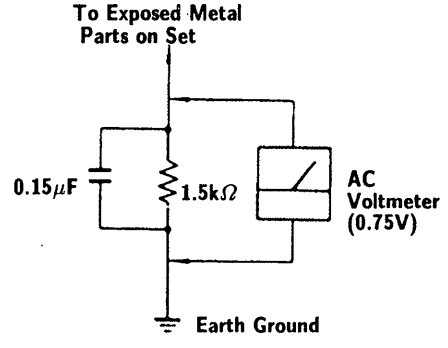


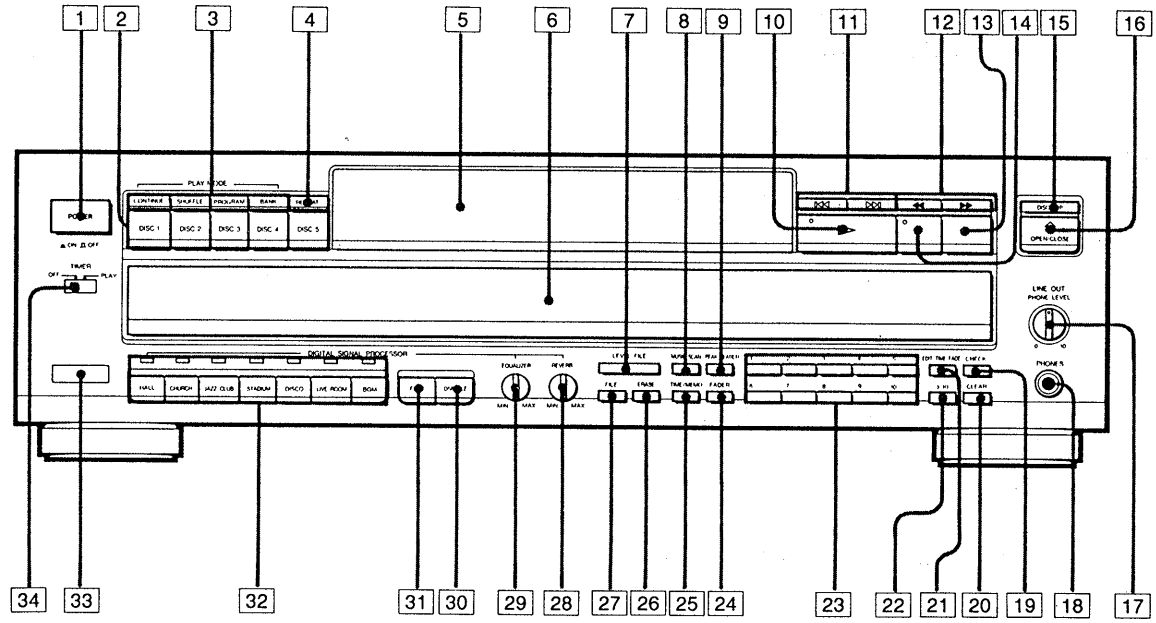
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of Controls

Front Panel

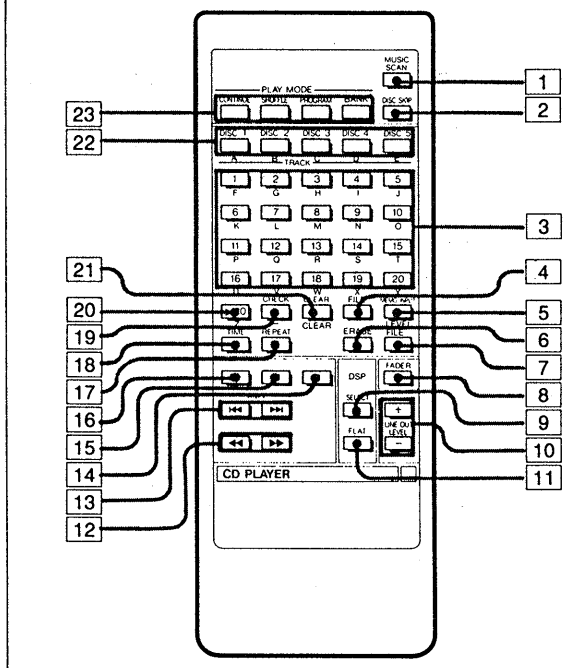


Refer to the pages indicated in ( ) for details.

1 POWER switch (page 8)
2 DISC 1-5 buttons (page 8)
3 PLAY MODE buttons
CONTINUE button (page 11)
SHUFFLE button (page 11)
PROGRAM button (page 12)
BANK button (page 23)
4 REPEAT button (page 18)
5 Display window (page 9)
6 Disc tray (page 8)
7 LEVEL FILE button (page 26)
8 MUSIC SCAN button (page 19)
9 PEAK SEARCH button (page 17)
10 ▶(play) button and indicator (page 8)
11 ⏮/⏭ (AMS*) buttons (page 10)
12 ◀◀/▶▶ (manual search) buttons (page 10)
13 ■ (stop) button (page 8)
14 ❚❚ (pause) button and indicator (page 8)
15 DISC SKIP button (page 8)
16 ⏏ OPEN/CLOSE button (page 8)
17 LINE OUT/PHONE LEVEL control (page 8)
18 PHONES jack (page 8)
19 CHECK button (page 13)
20 CLEAR button (page 13)
21 EDIT/TIME FADE button (page 14)
22 >10 (over 10) button (page 10)
23 Numeric buttons (1-10) (page 10)
24 FADER button (page 16)
25 TIME/MEMO button (page 9)
26 ERASE button (page 22)
27 FILE button (page 22)
28 DSP REVERB level control (page 20)
29 DSP EQUALIZER level control (page 20)
30 DSP FILE button (page 21)
31 FLAT button (page 20)
32 DSP mode buttons and indicators (page 20)
BGM button
LIVE button
DISCO button
STADIUM button
JAZZ CLUB button
CHURCH button
HALL button
33 Remote sensor
34 TIMER switch (page 27)

* AMS is the abbreviation of Automatic Music Sensor.

Remote Commander



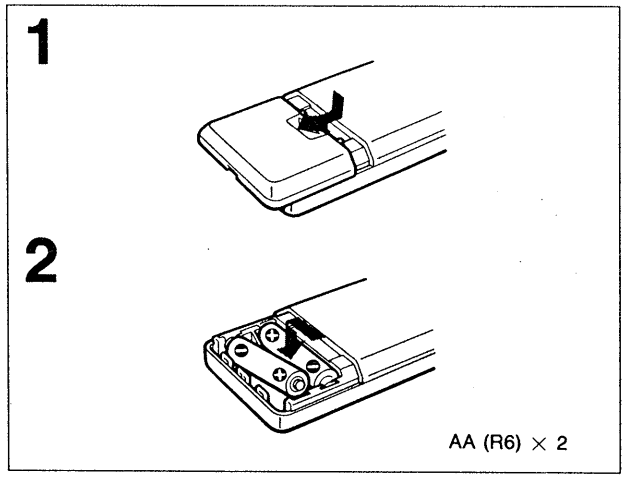
Refer to the pages indicated in ( ) for details.

1 MUSIC SCAN button (page 19)
2 DISC SKIP button (page 8)
3 Numeric buttons (1-20) (page 10)
4 FILE button (page 22)
5 MEMO INPUT button (page 24)
6 ERASE button (page 22)
7 LEVEL FILE button (page 26)
8 FADER button (page 16)
9 DSP SELECT button (page 20)
10 LINE OUT LEVEL buttons (page 8)
11 DSP FLAT button (page 20)
12 ◀◀/▶▶ (manual search) buttons (page 10)
13 ⏮/⏭ (AMS) buttons (page 10)
14 ■ (stop) button (page 8)
15 ❚❚ (pause) button (page 8)
16 ▶ (play) button (page 8)
17 REPEAT button (page 18)
18 TIME button (page 9)
19 CHECK (program check) button (page 13)
20 >20 (over 20) button (page 10)
21 CLEAR (program clear) button (page 13)
22 DISC 1-5 buttons (page 8)
23 PLAY MODE buttons
CONTINUE button (page 11)
SHUFFLE button (page 11)
PROGRAM button (page 12)
BANK button (page 23)

Buttons with orange letters (A, B, C, ...) are for writing a disc memo (page 24).

Preparing the Remote Commander

Installing Batteries



On battery life

- About half a year of normal operation can be expected when using the Sony SUM-3(NS) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

Notes on the remote commander and remote control operation

- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the commander casing, particularly when replacing the batteries.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus. Such exposure can cause a malfunction.
- To avoid damage caused by battery leakage and corrosion, remove the batteries when the commander will not be used for a long time.

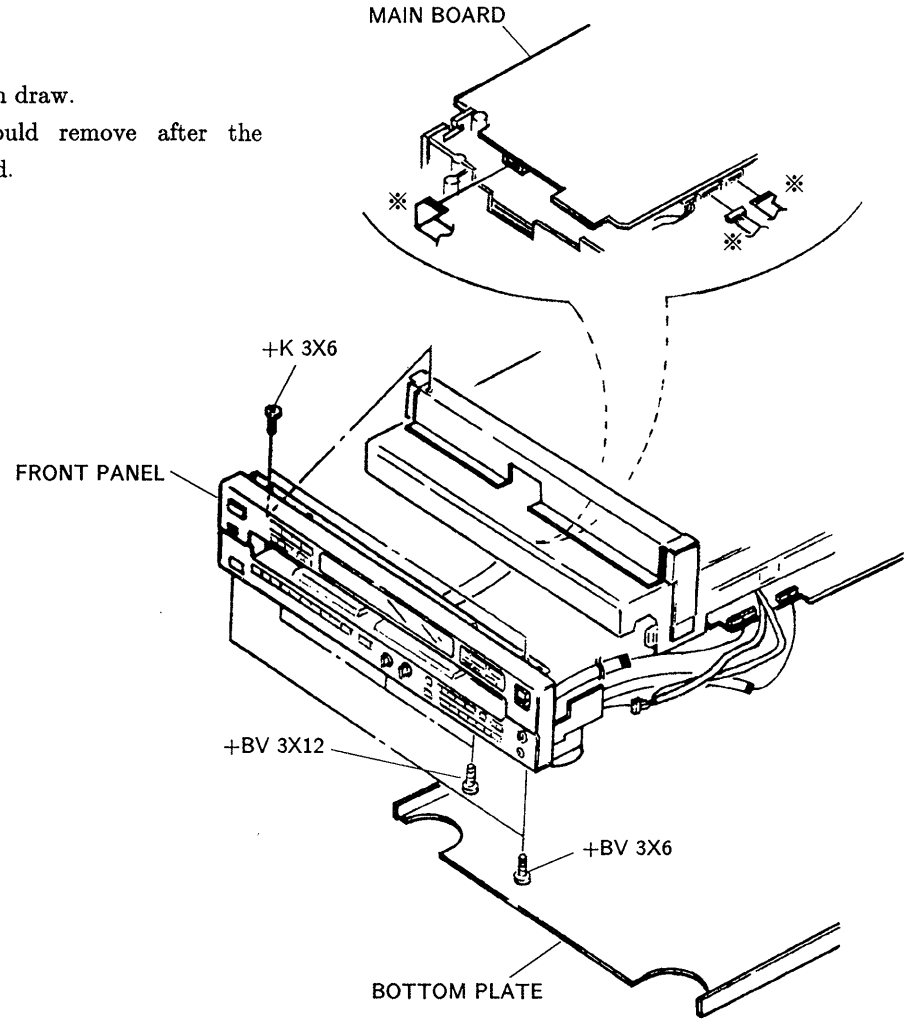
SECTION 2
DISASSEMBLY

Note :
Follow the disassembly procedure in the nomerical order given.

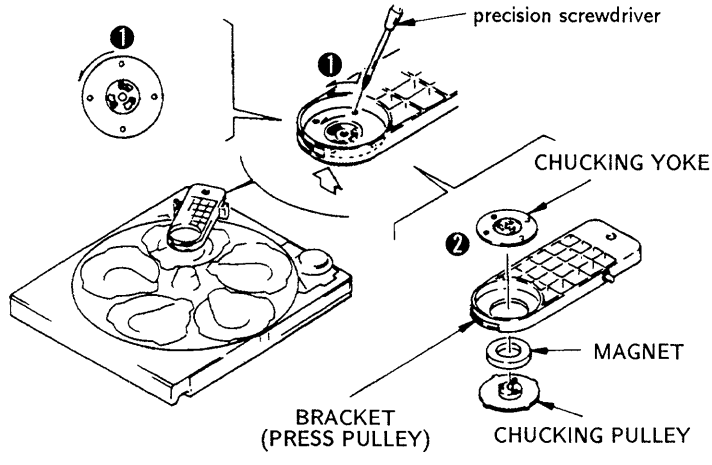
1. Remove the FRONT PANEL

1. Remove seven screws.
2. Remove the connector shown in draw.

Note : ※ marked connector should remove after the BOTTOM PLATE removed.

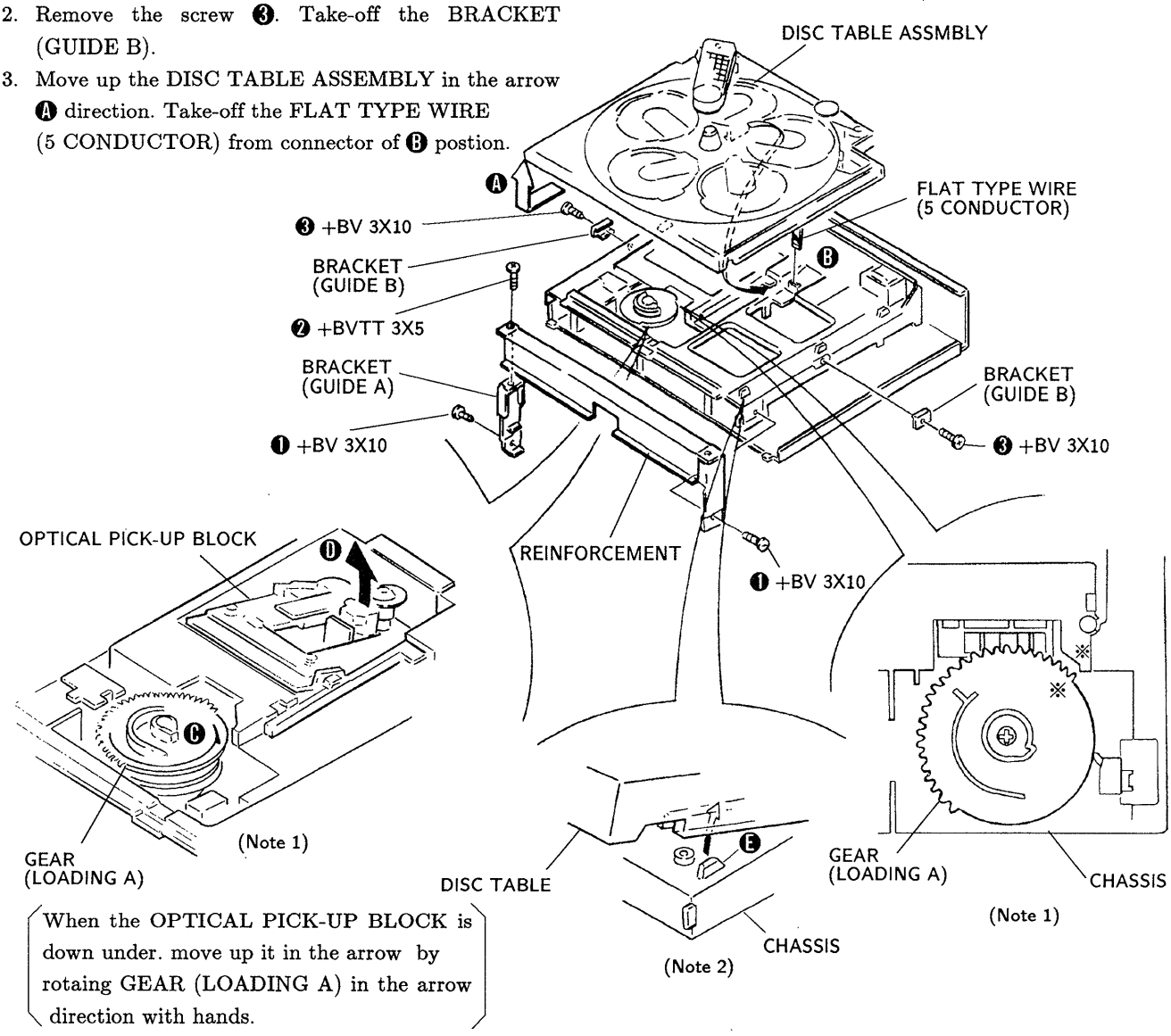


2. Remvoe the CHUCKING PULLEY



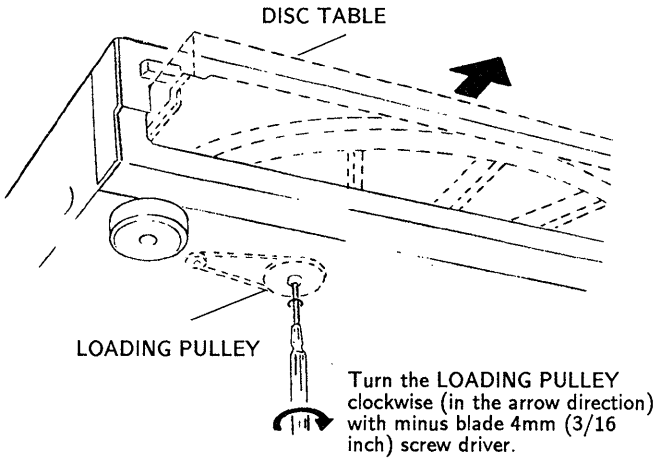
3. Remove the DISC TABLE ASSEMBLY

1. Remove the screw ❶, ❷. Take-off the BRACKET (GUIDE A) and the reinforcement.
2. Remove the screw ❸. Take-off the BRACKET (GUIDE B).
3. Move up the DISC TABLE ASSEMBLY in the arrow Ⓐ direction. Take-off the FLAT TYPE WIRE (5 CONDUCTOR) from connector of Ⓑ postion.



When the OPTICAL PICK-UP BLOCK is down under. move up it in the arrow by rotaing GEAR (LOADING A) in the arrow direction with hands.

【How to move the DISC TABLE ASSEMBLY with manual】


DISC TABLE
LOADING PULLEY
Turn the LOADING PULLEY clockwise (in the arrow direction) with minus blade 4mm (3/16 inch) screw driver.

【NOTICE FOR ASSEMBLY OF DISC TABLE】

Note 1. ※ Marked of GEAR (LOADING A) should set with ※ marked of CHASSIS.

Note 2. place DISC TABLE S0 that 5 rids on the CHASSIS to enter the guide grooves on the botton of the DISC TABLE.

SECTION 3
ADJUSTMENT

3-1. MECHANICAL ADJUSTMENT

Chucking Arm Height Adjustment

This adjustment should be parformed after the electrical adjustment and on replacing adjusting screw, magnet, or chucking pulley.

Procedure :

1. Set disc (YEDS-18).
2. Adjust the bracket (press pulley) height with adjusting screw as shown i Fig. A.
   Perform same height the surface of a convex part of the bracket and upper side of chucking yoke as shown in Fig. B. Make sure to check A and B is same clearance from Ⓐ part of bracket.
   (Fig. B).
3. After the adjustments, apply suitable locking compound to the parts adjusted.

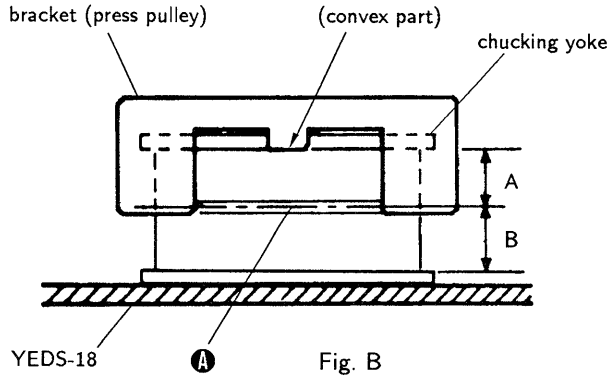


Fig. B

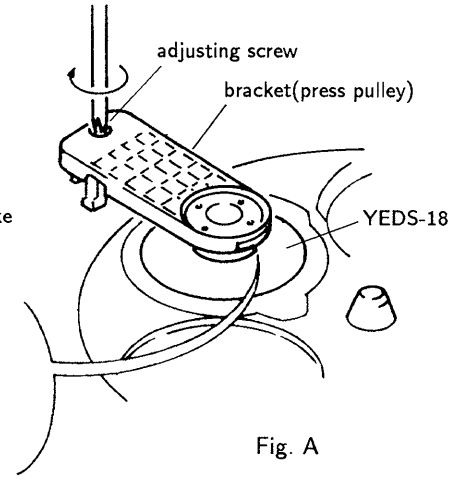


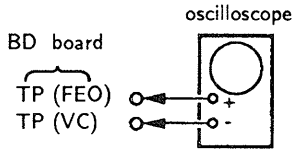
Fig. A

3-2. ELECTRICAL BLOCK CHECKING

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

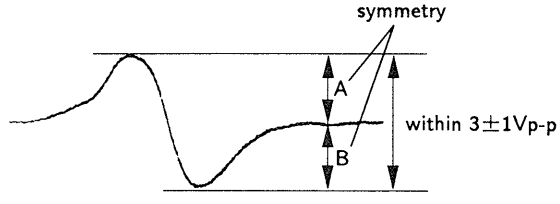
S-Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

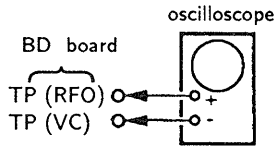
S-curve waveform



5. After check, remove the lead wire connected in step 2.

Note : • Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

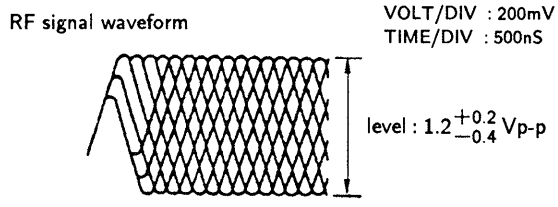


Procedure :

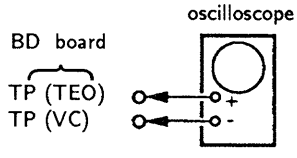
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.



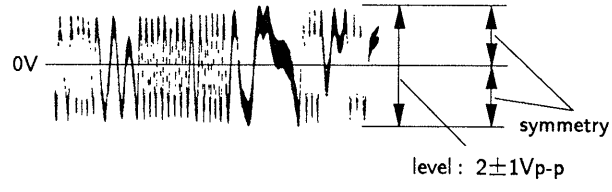
E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform

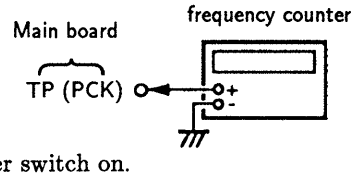


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.

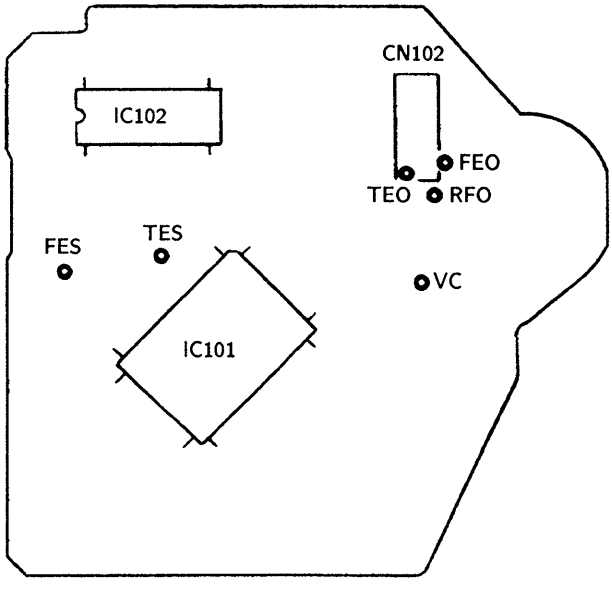


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218 MHz.

Test Point Location :

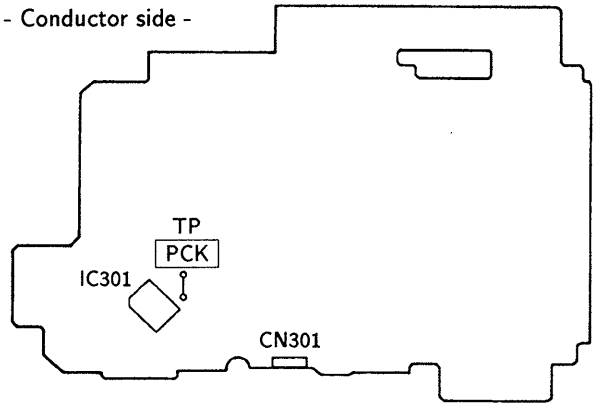
【BD BOARD】

- Conductor side -



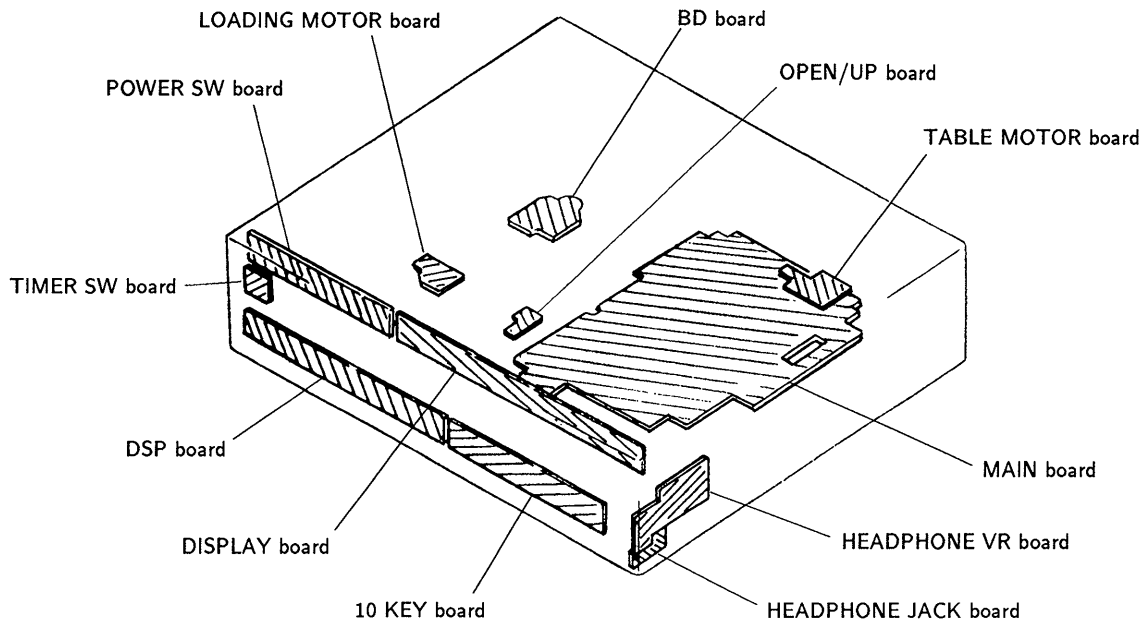
【MAIN BOARD】

- Conductor side -



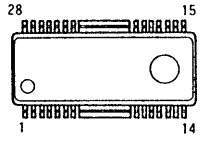
SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

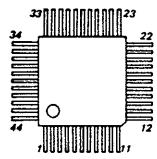


4-2. SEMICONDUCTOR LEAD LAYOUTS

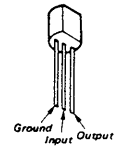
BA6297AFP



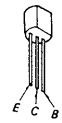
CXD2701Q



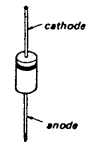
NJM79L12A



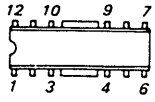
2SC2878-AB



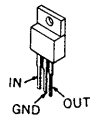
1N4148M



CXA1291P

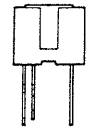


M5F7807

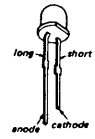


RC4556S

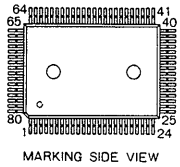
GP-1A521



SEL2510C



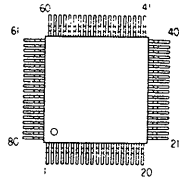
CXD2500AQ
MSC62408-043GS-V1K

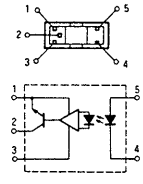


MARKING SIDE VIEW

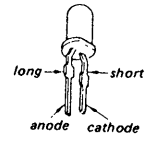
M5231TL

μ PD75516GF-374-3B9

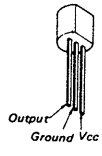




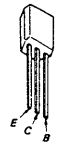
SEL2810A-C



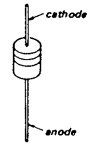
NJM78L12A



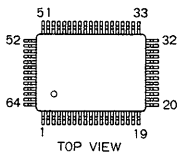
DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC144ES
2SC3622A-LK



RD-5.1ES-B2
RD-5.6ES-B
11ES2



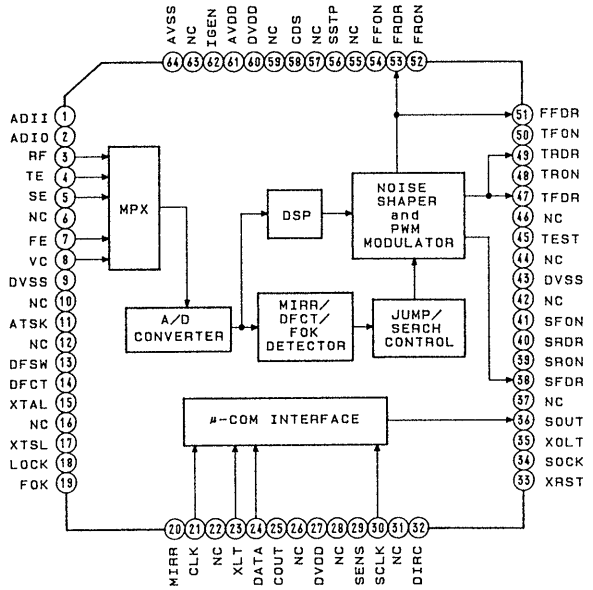
CXD2501Q



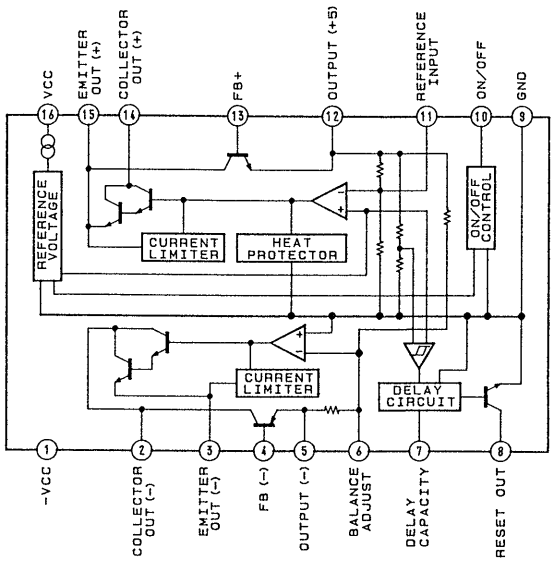
TOP VIEW

4-3. IC BLOCK DIAGRAM

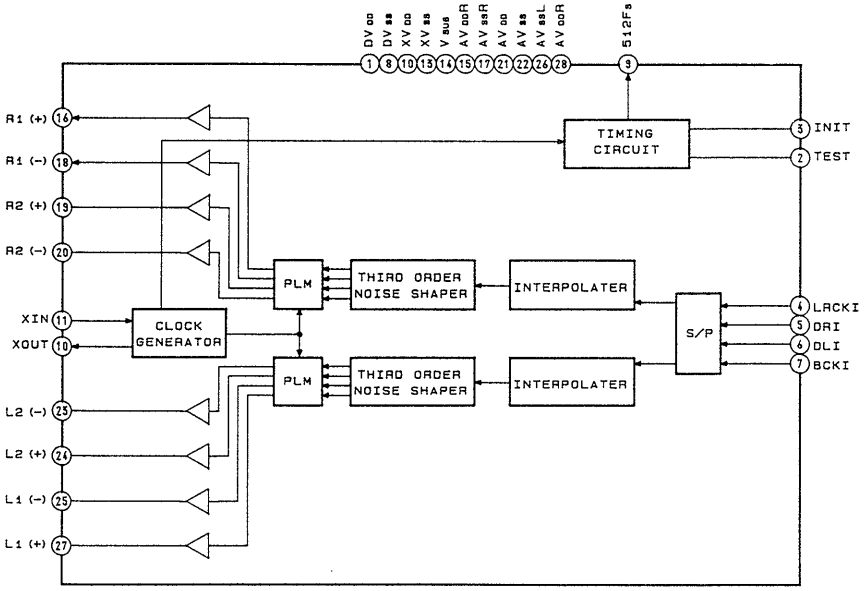
IC101 CXD2501Q



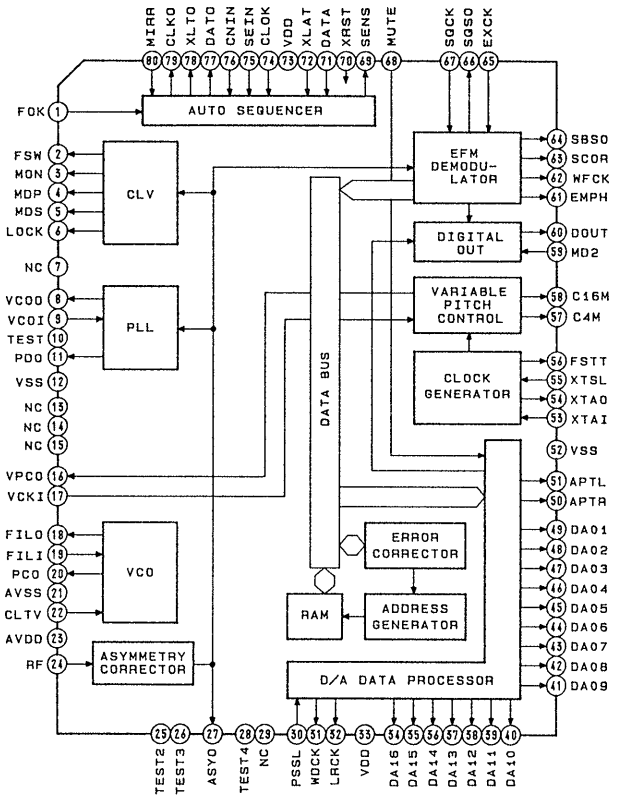
IC201 M5290P-16



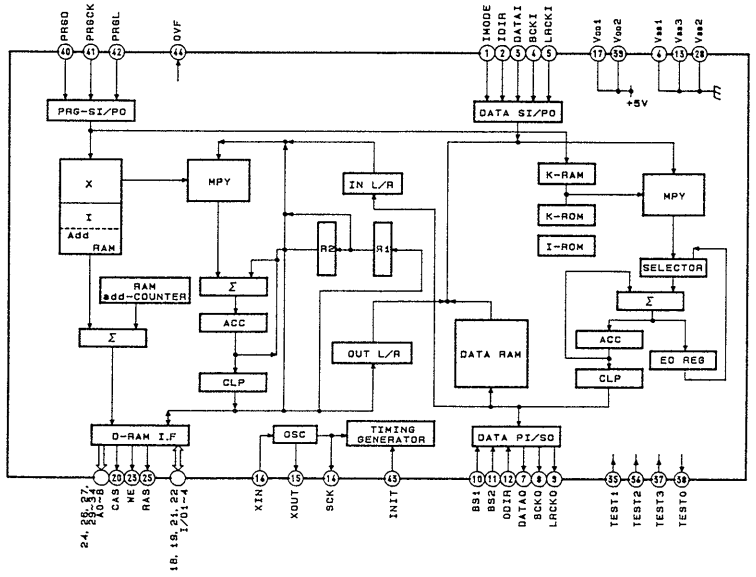
IC352 CXD2561M-1



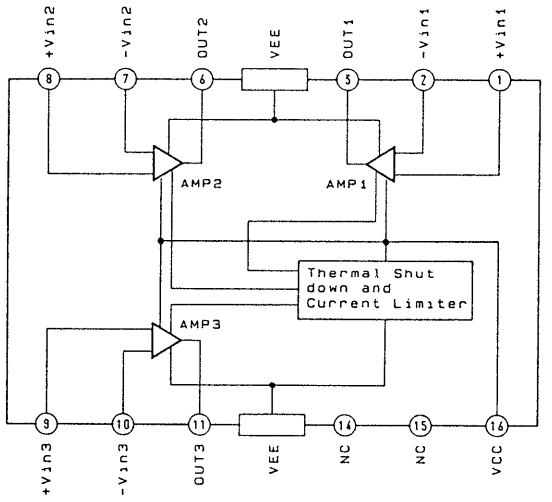
IC301 CXD2500AQ



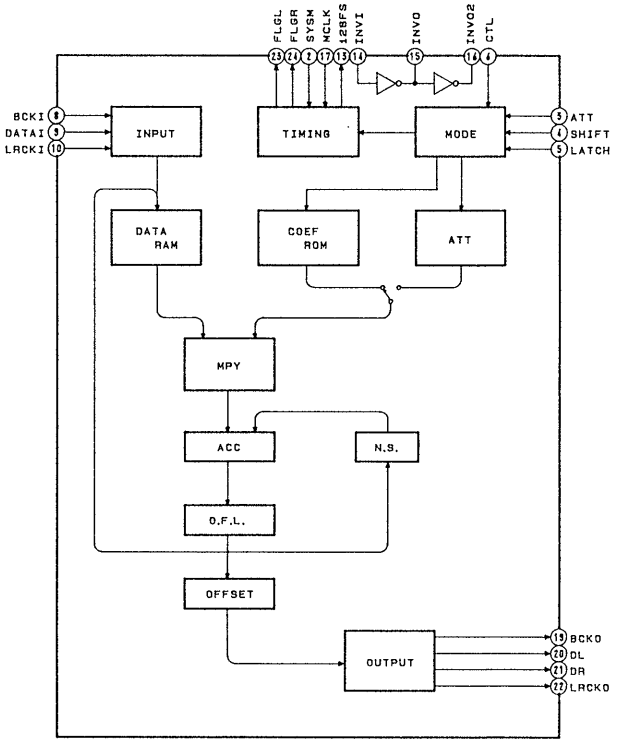
IC331 CXD2701Q



IC403 CXA1291P



IC351 CXD2560M



4-4. PRINTED WIRING BOARDS

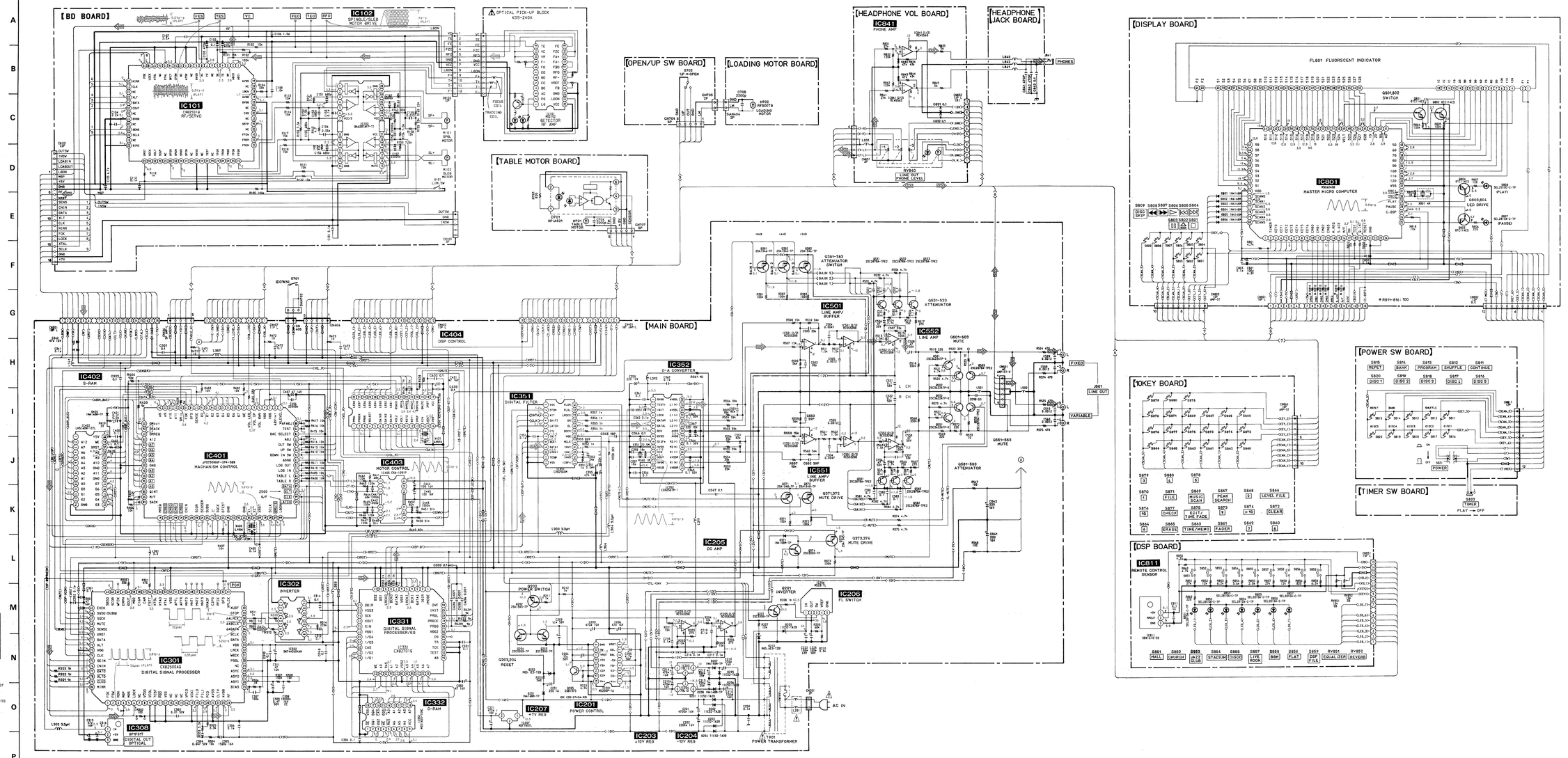
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	C - 20	IC401	D - 16
D202	D - 20	IC402	E - 17
D203	C - 20	IC403	D - 12
D204	D - 20	IC404	G - 11
D205	E - 20	IC501	G - 19
D206	E - 20	IC551	H - 19
D207	E - 20	IC552	H - 20
D208	E - 20	IC801	K - 6
D209	B - 18	IC811	E - 2
D210	B - 18	IC841	B - 11
D231	D - 19		
D232	D - 20	Q201	A - 19
D371	E - 18	Q202	B - 16
D400	D - 17	Q203	A - 16
D701	G - 27	Q204	A - 16
		Q205	A - 17
D801	K - 6		
D802	K - 7	Q371	G - 16
D803	K - 7	Q372	F - 16
D804	K - 7	Q373	F - 22
D805	K - 7	Q374	D - 17
		Q381	F - 13
D806	K - 7		
D807	K - 10	Q382	F - 13
D808	K - 9	Q383	F - 14
D851	E - 3	Q501	G - 22
D852	E - 4	Q502	G - 22
		Q503	G - 22
D853	E - 5		
D854	E - 5	Q531	G - 21
D855	E - 6	Q532	G - 21
D856	E - 6	Q533	G - 21
D857	E - 7	Q551	I - 22
		Q552	I - 22
IC101	C - 26	Q553	J - 22
IC102	B - 26	Q581	I - 21
IC201	C - 17	Q582	I - 21
IC203	F - 21	Q583	I - 21
IC204	F - 21	Q801	K - 4
IC205	G - 20	Q802	K - 4
IC206	B - 19	Q803	K - 4
IC207	D - 18	Q804	K - 4
IC301	H - 13		
IC302	H - 15		
IC308	F - 23		
IC331	G - 16		
IC332	F - 15		
IC351	G - 17		
IC352	G - 17		

Note:

- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.

[HEADPHONE (VOL BOARD)]
[10KEY BOARD]
[HEADPHONE JACK BOARD]
[MAIN BOARD]
[BD BOARD]
OPTICAL PICK-UP BLOCK KSS-240A
[DSP BOARD]
[TIMER SW BOARD]
[POWER SW BOARD]
[DISPLAY BOARD]
[TABLE MOTOR BOARD]
[LOADING MOTOR BOARD]
[OPEN/SW BOARD]
AC IN
FIXED
VARIABLE



Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

Note :	Note :
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ——— : B+ Line
- ▪▪ ▪▪ ▪▪ : B – Line
- Voltage and waveforms are dc with respect to ground under no-signal (no disc) conditions.
- Voltages are taken with a VOM (10MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : CD

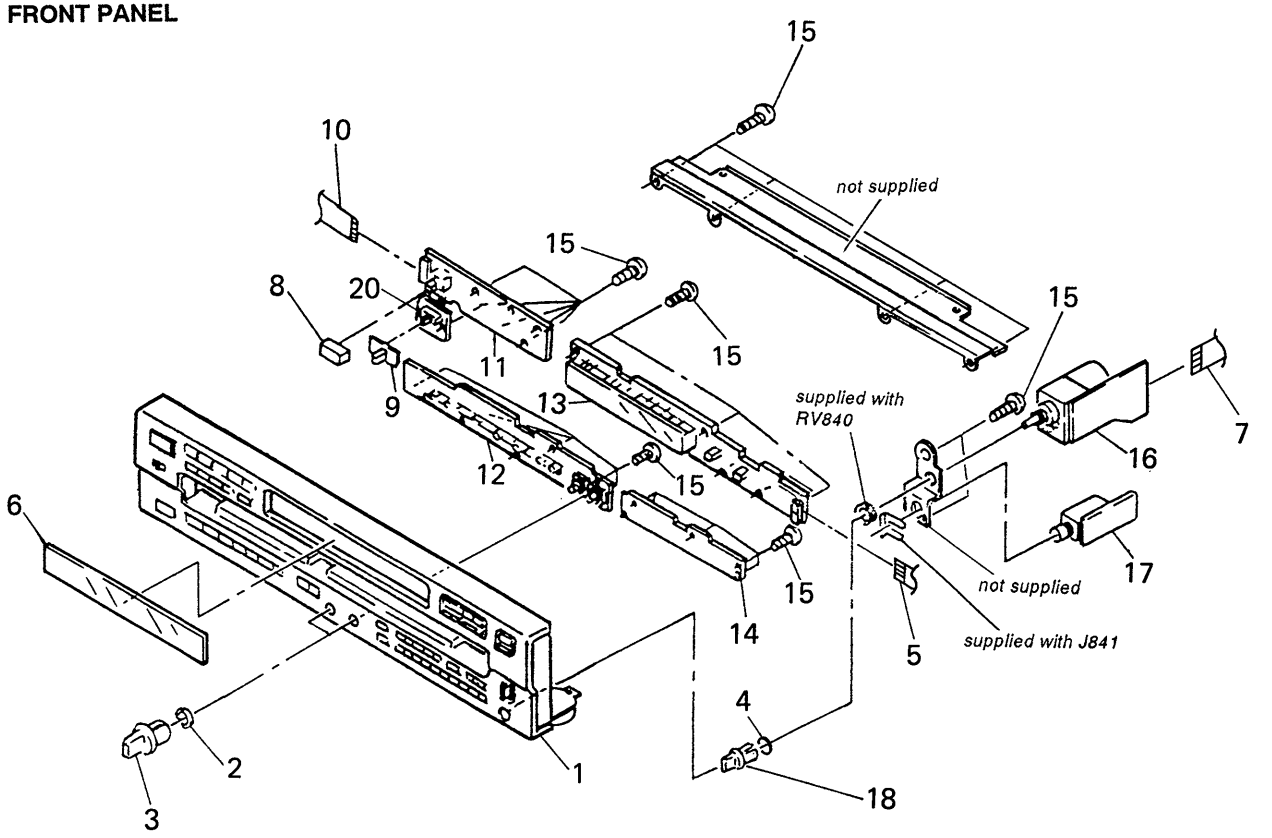
SECTION 5
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE).... (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

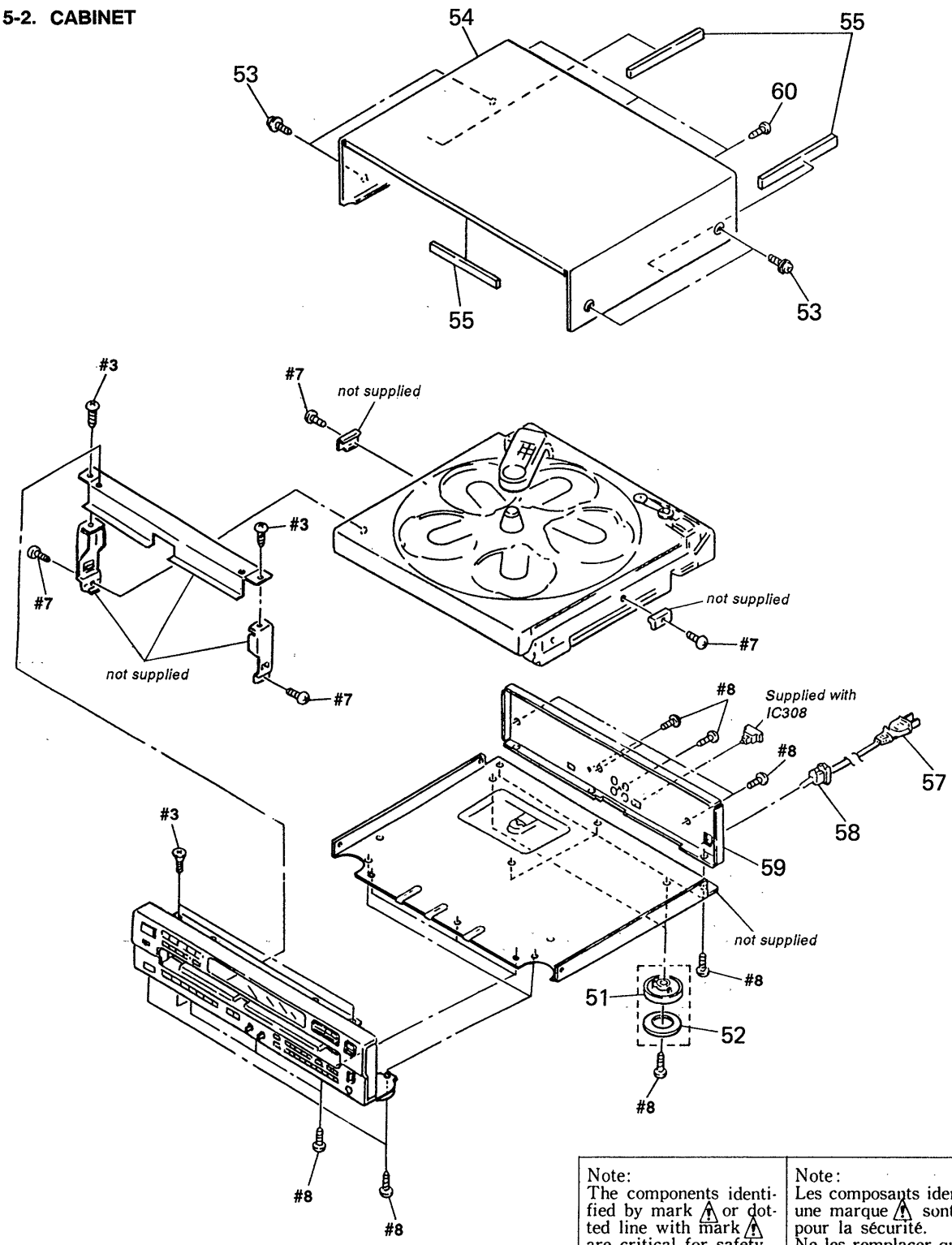
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL



Ref. No.	Part No.	Description	Remark
1	X-4942-667-1	PANEL ASSY, FRONT	
2	3-354-981-01	SPRING (SUS), RING	
3	4-944-154-01	KNOB (DSP)	
4	4-948-469-01	SPRING, RING	
5	1-690-788-11	WIRE (FLAT TYPE) (18 CORE)	
6	4-952-232-01	PLATE (FL-A), INDICATION	
7	1-690-789-11	WIRE (FLAT TYPE) (12 CORE)	
8	4-922-921-01	BUTTON (POWER)	
9	4-922-518-11	KNOB (TIMER)	
10	1-690-849-11	WIRE (FLAT TYPE) (11 CORE)	
* 11	1-643-100-11	POWER SW BOARD	
* 12	A-4649-326-A	DSP BOARD, COMPLETE	
* 13	A-4649-325-A	DISPLAY BOARD, COMPLETE	
* 14	1-643-099-11	10KEY BOARD	
15	4-951-620-01	SCREW (2.6X8), +BVTP	
* 16	1-643-102-11	HEADPHONE VOL BOARD	
* 17	1-643-103-11	HEADPHONE JACK BOARD	
18	A-4660-105-A	KNOB (HP) ASSY	
* 20	1-644-527-11	TIMER SW BOARD	

5-2. CABINET

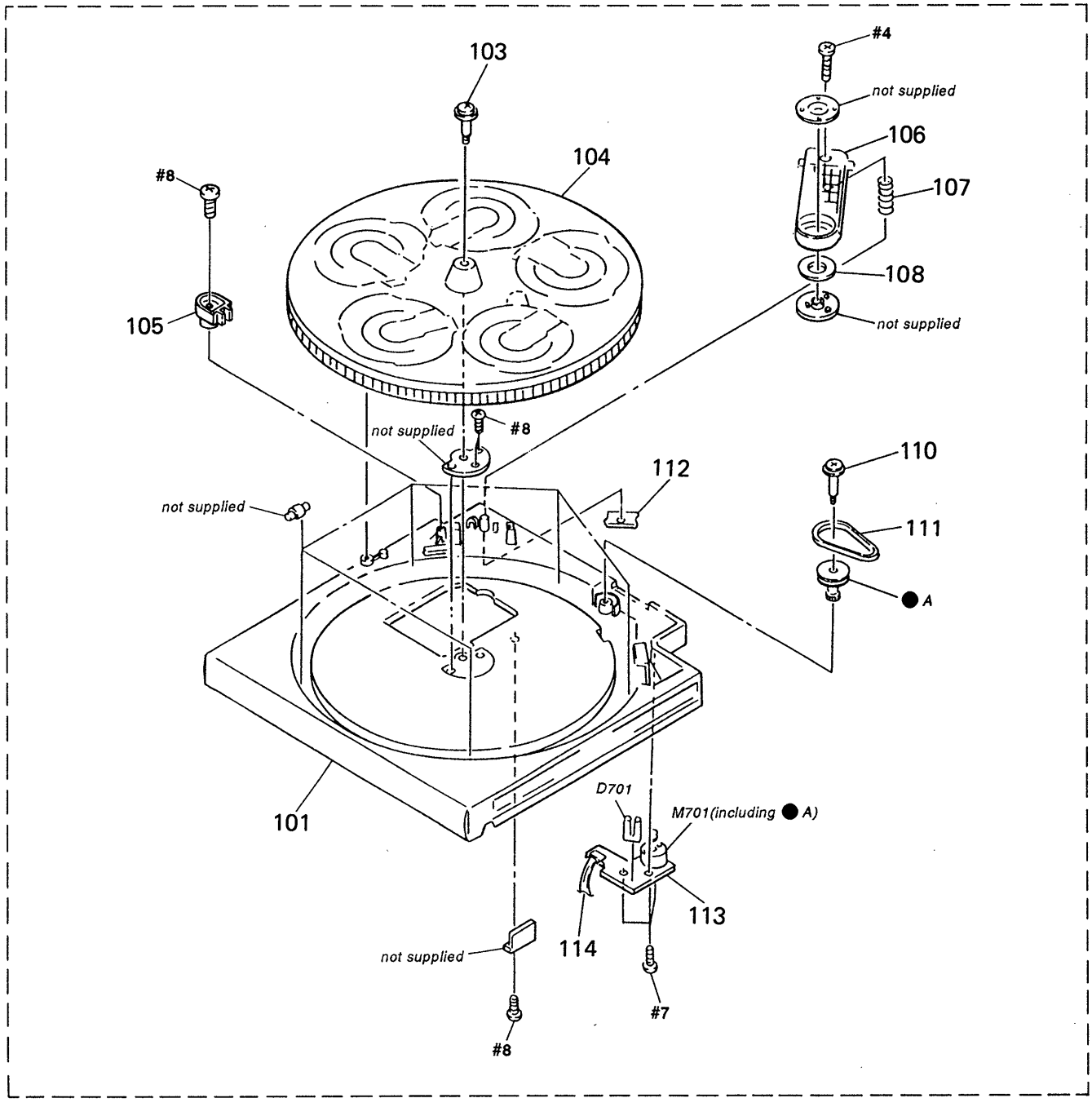


Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	X-4942-197-1	FOOT ASSY	
52	4-923-836-11	CUSHION	
53	3-704-366-01	SCREW (CASE) (M3X8)	
* 54	4-944-153-01	CASE	
* 55	4-929-561-01	CUSHION (CASE)	
⚠57	1-590-836-11	CORD, POWER	
* 58	3-703-244-00	BUSHING (2104), CORD	
* 59	4-951-173-01	PANEL, BACK	
60	3-703-685-21	SCREW (+BV 3X8)	

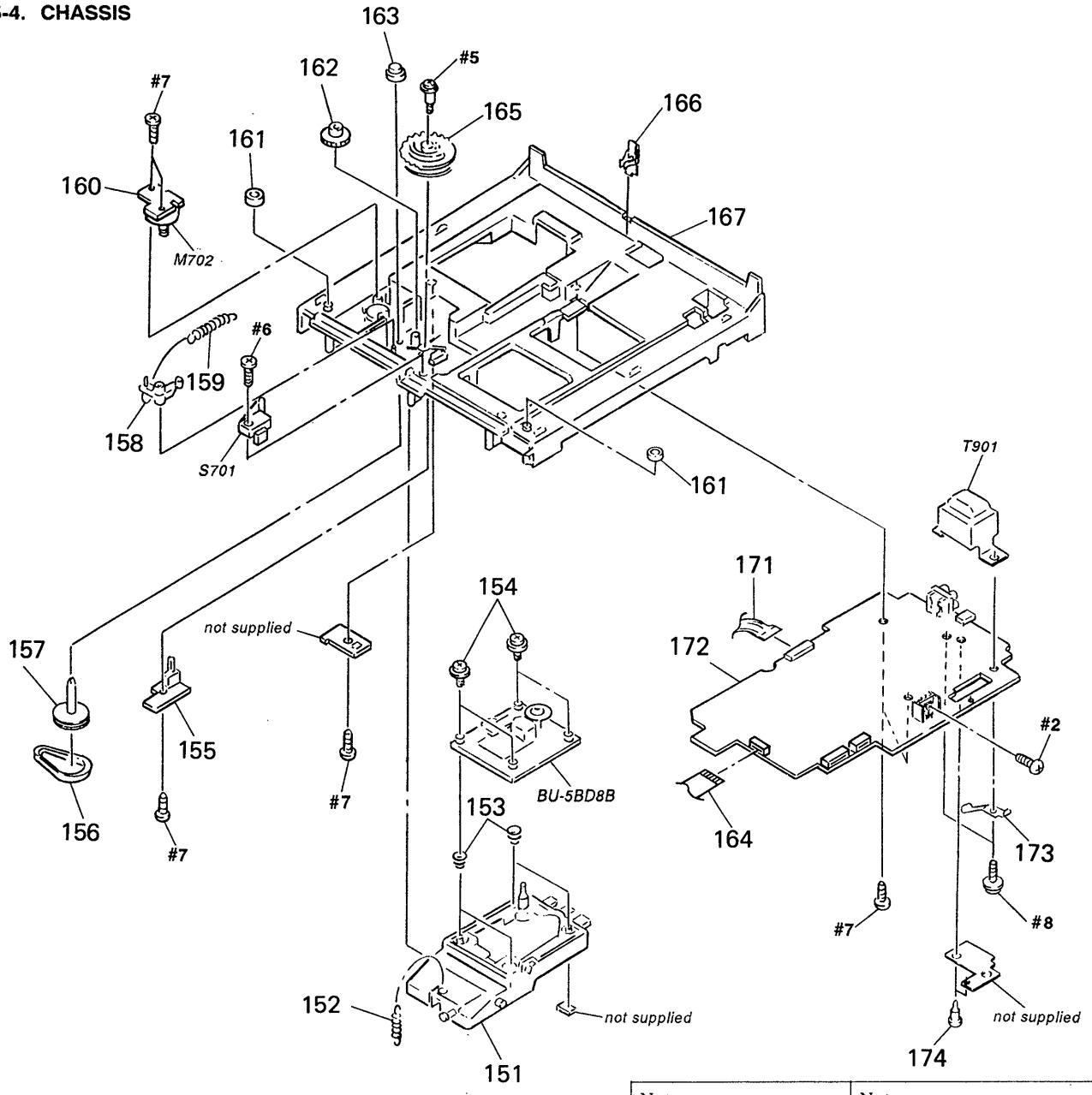
5-3. DISC TRAY

102 *(Except 113, 114, D701)*



Ref. No.	Part No.	Description	Remark
101	4-950-866-32	TABLE (A), DISK	
102	A-4660-127-A	TRAY ASSY	
103	4-926-384-01	SCREW, STEP	
104	4-926-383-11	TABLE (B), DISK	
* 105	4-949-226-01	PLATE, LOCK	
* 106	4-930-506-02	BRACKET (PRESS PULLEY)	
107	4-926-395-01	SPRING, COMPRESSION	
* 108	1-452-538-11	MAGNET	
110	4-923-597-01	SCREW, STEP	
111	4-926-399-01	BELT	
* 112	4-926-388-01	BRACKET (ADJUSTMENT)	
* 113	1-638-729-11	TABLE MOTOR BOARD	
114	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
D701	8-719-970-19	DIODE GP-1A521	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	

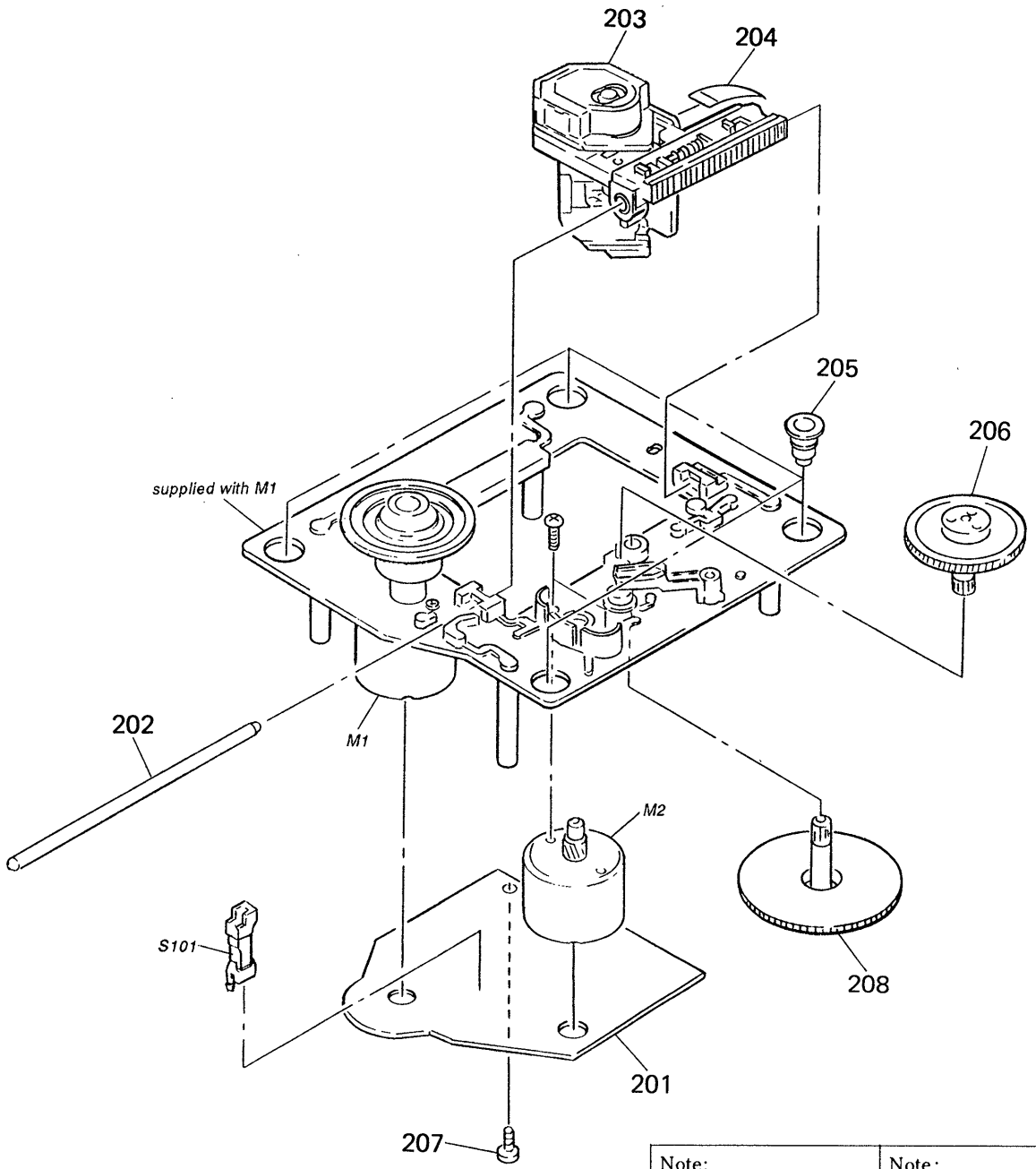
5-4. CHASSIS



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 151	4-934-373-01	BRACKET (BU)	
152	4-937-911-01	SPRING, TENSION	
153	4-949-385-01	SPRING (D), COIL	
154	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 155	1-638-731-11	OPEN/UP SW BOARD	
156	4-949-430-01	BELT (G RIB)	
157	4-944-491-01	PULLEY (LOADING A)	
158	4-917-519-01	LEVER, SET	
159	4-924-412-01	SPRING (B), TENSION	
* 160	1-638-730-11	LOADING MOTOR BOARD	
* 161	4-951-619-01	CUSHION (A)	
162	4-934-381-01	GEAR (LOADING C)	
163	4-934-375-01	GEAR (LOADING B)	
164	1-644-720-11	PC BOARD, FLEXIBLE	
165	4-934-391-01	GEAR (LOADING A)	
* 166	4-943-996-01	SPRING, LEAF	
* 167	4-943-997-01	CHASSIS	
171	1-694-003-11	JAMPER, FILM (WITH TARMINAL)	
* 172	A-4649-318-A	MAIN BOARD, COMPLETE	
* 173	4-930-512-01	PLATE, GROUND	
174	3-531-576-11	RIVET	
M702	A-4604-871-A	MOTOR ASSY, LOADING	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (DOWN)	
⚠T901	1-450-542-11	TRANSFORMER, POWER	

5-5. OPTICAL PICK-UP BLOCK (BU-5BD8B)



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 201	A-4649-199-A	BD BOARD, COMPLETE	
202	4-917-565-01	SHAFT, SLED	
⚠203	8-848-144-11	DEVICE, OPTICAL PICK-UP (KSS-240A)	
204	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
205	4-951-940-01	INSULATOR (BU)	
206	4-917-567-01	GEAR (M)	
207	4-951-620-01	SCREW (2.6X8), +BVTP	
208	4-917-564-01	GEAR (P), FLATNESS	
M1	X-4917-523-3	BASE ASSY (SPINDLE MOTOR)	
M2	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

SECTION 6
ELECTRICAL PARTS LIST

BD **DISPLAY** **DSP**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA....: μA...., uPA....: μPA....
  uPB....: μPB...., uPC....: μPC....
  uPD....: μPD....
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description		Remark
*	A-4649-199-A	BD BOARD, COMPLETE		
		**********		
		< CAPACITOR >		
C101	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C102	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C103	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C104	1-164-505-11	CERAMIC CHIP 2.2uF		16V
C105	1-135-155-21	TANTALUM CHIP 4.7uF	10%	16V
C106	1-164-346-11	CERAMIC CHIP 1uF		16V
C107	1-164-505-11	CERAMIC CHIP 2.2uF		16V
C108	1-164-346-11	CERAMIC CHIP 1uF		16V
C112	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C151	1-163-007-11	CERAMIC CHIP 680PF	10%	50V
C152	1-163-007-11	CERAMIC CHIP 680PF	10%	50V
C153	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C154	1-164-336-11	CERAMIC CHIP 0.33uF		25V
C155	1-163-007-11	CERAMIC CHIP 680PF	10%	50V
C156	1-163-007-11	CERAMIC CHIP 680PF	10%	50V
C157	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C158	1-163-037-11	CERAMIC CHIP 0.022uF	10%	25V
C159	1-163-023-00	CERAMIC CHIP 0.015uF	5%	50V
C160	1-163-019-00	CERAMIC CHIP 0.0068uF	10%	50V
C181	1-163-038-00	CERAMIC CHIP 0.1uF		25V
		< CONNECTOR >		
CN101	1-568-861-11	SOCKET, CONNECTOR 18P		
CN102	1-568-795-11	SOCKET, CONNECTOR 12P		
		< IC >		
IC101	8-752-344-48	CXD2501Q		
IC102	8-759-071-79	IC BA6297AFP		

Ref. No.	Part No.	Description		Remark
		< RESISTOR >		
R101	1-216-077-00	METAL CHIP 15K	5%	1/10W
R102	1-216-097-00	METAL CHIP 100K	5%	1/10W
R103	1-216-077-00	METAL CHIP 15K	5%	1/10W
R104	1-216-085-00	METAL CHIP 33K	5%	1/10W
R105	1-216-097-00	METAL CHIP 100K	5%	1/10W
R112	1-216-049-00	METAL CHIP 1K	5%	1/10W
R113	1-216-077-00	METAL CHIP 15K	5%	1/10W
R114	1-216-077-00	METAL CHIP 15K	5%	1/10W
R117	1-216-077-00	METAL CHIP 15K	5%	1/10W
R118	1-216-077-00	METAL CHIP 15K	5%	1/10W
R121	1-216-077-00	METAL CHIP 15K	5%	1/10W
R122	1-216-077-00	METAL CHIP 15K	5%	1/10W
R151	1-216-070-00	METAL CHIP 7.5K	5%	1/10W
R152	1-216-070-00	METAL CHIP 7.5K	5%	1/10W
R153	1-216-070-00	METAL CHIP 7.5K	5%	1/10W
R154	1-216-070-00	METAL CHIP 7.5K	5%	1/10W
R155	1-216-070-00	METAL CHIP 7.5K	5%	1/10W
R156	1-216-070-00	METAL CHIP 7.5K	5%	1/10W
R157	1-216-085-00	METAL CHIP 33K	5%	1/10W
R158	1-216-076-00	METAL CHIP 13K	5%	1/10W
R159	1-216-085-00	METAL CHIP 33K	5%	1/10W
R160	1-216-081-00	METAL CHIP 22K	5%	1/10W
R161	1-216-093-00	METAL CHIP 68K	5%	1/10W
R162	1-216-085-00	METAL CHIP 33K	5%	1/10W
R163	1-216-308-00	METAL CHIP 4.7	5%	1/10W
		< SWITCH >		
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)		

****

*	A-4649-325-A	DISPLAY BOARD, COMPLETE		
		**********		
*	A-4649-326-A	DSP BOARD, COMPLETE		
		**********		
*	3-362-478-11	HOLDER (T), LED		
*	4-945-419-01	HOLDER (FL)		
*	4-952-230-01	HOLDER (LED)		

Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			
C801	1-124-584-00	ELECT	100uF	20%	10V
C802	1-164-159-11	CERAMIC	0.1uF		50V
C803	1-164-159-11	CERAMIC	0.1uF		50V
C811	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN801	1-691-896-12	CONNECTOR, FFC/FPC 18P			
CN802	1-691-752-11	SOCKET, CONNECTOR 12P			
CN803	1-691-754-21	SOCKET, CONNECTOR 10P (H TYPE)			
* CN851	1-691-893-21	CONNECTOR, FFC/FPC 15P			
		< DIODE >			
D801	8-719-987-63	DIODE	1N4148M		
D802	8-719-987-63	DIODE	1N4148M		
D803	8-719-987-63	DIODE	1N4148M		
D804	8-719-987-63	DIODE	1N4148M		
D805	8-719-987-63	DIODE	1N4148M		
D806	8-719-987-63	DIODE	1N4148M		
D807	8-719-301-52	LED	SEL2810A-C		
D808	8-719-303-00	LED	SEL2510C		
D851	8-719-301-52	LED	SEL2810A-C		
D852	8-719-301-52	LED	SEL2810A-C		
D853	8-719-301-52	LED	SEL2810A-C		
D854	8-719-301-52	LED	SEL2810A-C		
D855	8-719-301-52	LED	SEL2810A-C		
D856	8-719-301-52	LED	SEL2810A-C		
D857	8-719-301-52	LED	SEL2810A-C		
		< INDICATOR TUBE >			
FL801	1-519-714-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	8-759-067-12	IC	MSC62408-043GS-V1K		
IC811	8-741-100-48	IC	SBX1610-59		
		< TRANSISTOR >			
Q801	8-729-900-80	TRANSISTOR	DTC114ES		
Q802	8-729-900-80	TRANSISTOR	DTC114ES		
Q803	8-729-900-80	TRANSISTOR	DTC114ES		
Q804	8-729-900-80	TRANSISTOR	DTC114ES		
		< RESISTOR >			
R801	1-249-425-11	CARBON	4.7K	5%	1/4W
R802	1-249-429-11	CARBON	10K	5%	1/4W
R803	1-247-903-00	CARBON	1M	5%	1/4W
R804	1-249-441-11	CARBON	100K	5%	1/4W
R805	1-249-441-11	CARBON	100K	5%	1/4W
R806	1-249-409-11	CARBON	220	5%	1/4W
R807	1-249-406-11	CARBON	120	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-405-11	CARBON	100	5%	1/4W
R812	1-249-405-11	CARBON	100	5%	1/4W
R813	1-249-405-11	CARBON	100	5%	1/4W
R814	1-249-405-11	CARBON	100	5%	1/4W
R815	1-249-405-11	CARBON	100	5%	1/4W
R816	1-249-405-11	CARBON	100	5%	1/4W
R818	1-249-429-11	CARBON	10K	5%	1/4W
R850	1-249-425-11	CARBON	4.7K	5%	1/4W
R851	1-249-434-11	CARBON	27K	5%	1/4W
R852	1-249-430-11	CARBON	12K	5%	1/4W
R853	1-247-850-11	CARBON	6.2K	5%	1/4W
R854	1-247-844-11	CARBON	3.6K	5%	1/4W
R855	1-247-838-00	CARBON	2K	5%	1/4W
R856	1-249-416-11	CARBON	820	5%	1/4W
R857	1-249-434-11	CARBON	27K	5%	1/4W
R858	1-249-430-11	CARBON	12K	5%	1/4W
R859	1-247-850-11	CARBON	6.2K	5%	1/4W
R860	1-249-425-11	CARBON	4.7K	5%	1/4W
R862	1-249-409-11	CARBON	220	5%	1/4W
		< VARIABLE RESISTOR >			
RV851	1-241-514-11	RES, VAR, CARBON 10K (EQUALIZER)			
RV852	1-241-514-11	RES, VAR, CARBON 10K (REVERB)			
		< SWITCH >			
S801	1-554-303-21	SWITCH, TACTILE (■)			
S802	1-554-303-21	SWITCH, TACTILE (⏏)			
S803	1-554-303-21	SWITCH, TACTILE (⏸)			
S804	1-554-303-21	SWITCH, TACTILE (⏭)			
S805	1-554-303-21	SWITCH, TACTILE (⏮)			
S806	1-554-303-21	SWITCH, TACTILE (▷)			
S807	1-554-303-21	SWITCH, TACTILE (▶▶)			
S808	1-554-303-21	SWITCH, TACTILE (◀◀)			
S809	1-554-303-21	SWITCH, TACTILE (DISC SKIP)			
S851	1-554-303-21	SWITCH, TACTILE (HALL)			
S852	1-554-303-21	SWITCH, TACTILE (CHURCH)			
S853	1-554-303-21	SWITCH, TACTILE (JUZZ CLUB)			
S854	1-554-303-21	SWITCH, TACTILE (STADIAM)			
S855	1-554-303-21	SWITCH, TACTILE (DISCO)			
S856	1-554-303-21	SWITCH, TACTILE (FLAT)			
S857	1-554-303-21	SWITCH, TACTILE (LIVE ROOM)			
S858	1-554-303-21	SWITCH, TACTILE (BGM)			
S859	1-554-303-21	SWITCH, TACTILE (DSP FILE)			

DISPLAY | DSP | HEADPHONE VOL | HEADPHONE JACK | MAIN | 10 KEY | POWER SW | TIMER SW

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-643-102-11	HEADPHONE VOL BOARD			
		**********			
*	1-643-103-11	HEADPHONE JACK BOARD			
		**********			
		< CAPACITOR >			
C831	1-136-165-00	FILM	0.1uF	5% 50V	
C832	1-136-165-00	FILM	0.1uF	5% 50V	
C833	1-164-159-11	CERAMIC	0.1uF	50V	
C841	1-162-290-31	CERAMIC	470PF	10% 50V	
C842	1-162-290-31	CERAMIC	470PF	10% 50V	
C843	1-164-159-11	CERAMIC	0.1uF	50V	
		< CONNECTOR >			
* CN831	1-568-944-11	PIN, CONNECTOR 6P			
CN832	1-691-889-21	CONNECTOR, FFC/FPC 11P			
		< IC >			
IC841	8-759-981-89	IC RC4556S			
		< JACK >			
J841	1-568-519-41	JACK, LARGE TYPE (PHONES)			
		< COIL >			
L831	1-412-473-21	INDUCTOR 0uH			
L841	1-424-090-11	COIL, LINE FILTER			
L842	1-424-090-11	COIL, LINE FILTER			
L843	1-424-090-11	COIL, LINE FILTER			
		< RESISTOR >			
R831	1-249-434-11	CARBON	27K	5% 1/4W	
R832	1-247-881-00	CARBON	120K	5% 1/4W	
R833	1-249-437-11	CARBON	47K	5% 1/4W	
R834	1-247-870-11	CARBON	43K	5% 1/4W	
R835	1-249-402-11	CARBON	56	5% 1/4W	
R841	1-249-434-11	CARBON	27K	5% 1/4W	
R842	1-247-881-00	CARBON	120K	5% 1/4W	
R843	1-249-437-11	CARBON	47K	5% 1/4W	
R844	1-247-870-11	CARBON	43K	5% 1/4W	
R845	1-249-402-11	CARBON	56	5% 1/4W	
		< VARIABLE RESISTOR >			
RV840	1-241-917-11	RES, VAR 10K/10K/10K (LINE OUT, PHONE LEVEL)			

Ref. No.	Part No.	Description			Remark
*	A-4649-318-A	MAIN BOARD, COMPLETE			
		**********			
*	1-643-099-11	10 KEY BOARD			
		**********			
*	1-643-100-11	POWER SW BOARD			
		**********			
*	1-644-527-11	TIMER SW BOARD			
		**********			
*	4-363-146-00	HEAT SINK, V.OUT			
	4-870-539-00	PLATE, GROUND			
	7-682-547-04	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C201	1-126-937-11	ELECT	4700uF	20% 16V	
C202	1-124-556-11	ELECT	2200uF	20% 16V	
C203	1-126-059-11	ELECT	10uF	20% 50V	
C204	1-126-059-11	ELECT	10uF	20% 50V	
C205	1-126-163-11	ELECT	4.7uF	20% 50V	
C206	1-126-022-11	ELECT	47uF	20% 16V	
C209	1-124-997-11	ELECT	470uF	20% 10V	
C210	1-126-024-11	ELECT	220uF	20% 16V	
C211	1-126-023-11	ELECT	100uF	20% 16V	
C212	1-126-025-11	ELECT	330uF	20% 25V	
C213	1-124-120-11	ELECT	220uF	20% 25V	
C214	1-126-012-11	ELECT	470uF	20% 16V	
C215	1-126-012-11	ELECT	470uF	20% 16V	
C216	1-136-165-00	FILM	0.1uF	5% 50V	
C217	1-136-165-00	FILM	0.1uF	5% 50V	
C218	1-136-165-00	FILM	0.1uF	5% 50V	
C219	1-136-165-00	FILM	0.1uF	5% 50V	
C221	1-124-997-11	ELECT	470uF	20% 10V	
C222	1-124-572-11	ELECT	100uF	20% 63V	
C223	1-124-122-11	ELECT	100uF	20% 50V	
C231	1-126-024-11	ELECT	220uF	20% 16V	
C250	1-164-159-11	CERAMIC	0.1uF	50V	
C300	1-126-022-11	ELECT	47uF	20% 16V	
C301	1-164-159-11	CERAMIC	0.1uF	50V	
C302	1-164-159-11	CERAMIC	0.1uF	50V	
C303	1-130-483-00	MYLAR	0.01uF	5% 50V	
C304	1-136-161-00	FILM	0.047uF	5% 50V	
C305	1-161-374-11	CERAMIC	0.0015uF	20% 50V	
C306	1-164-159-11	CERAMIC	0.1uF	50V	
C307	1-162-282-31	CERAMIC	100PF	10% 50V	
C308	1-162-306-11	CERAMIC	0.01uF	20% 16V	
C309	1-124-465-00	ELECT	0.47uF	20% 50V	
C310	1-164-159-11	CERAMIC	0.1uF	50V	
C311	1-124-589-11	ELECT	47uF	20% 16V	
C312	1-164-159-11	CERAMIC	0.1uF	50V	

MAIN 10 KEY POWER SW TIMER SW

Ref. No.	Part No.	Description			Remark
C314	1-164-159-11	CERAMIC	0.1uF		50V
C315	1-126-022-11	ELECT	47uF	20%	16V
C316	1-164-159-11	CERAMIC	0.1uF		50V
C318	1-164-159-11	CERAMIC	0.1uF		50V
C321	1-164-159-11	CERAMIC	0.1uF		50V
C322	1-164-159-11	CERAMIC	0.1uF		50V
C331	1-164-159-11	CERAMIC	0.1uF		50V
C332	1-124-589-11	ELECT	47uF	20%	16V
C333	1-164-159-11	CERAMIC	0.1uF		50V
C334	1-164-159-11	CERAMIC	0.1uF		50V
C339	1-164-159-11	CERAMIC	0.1uF		50V
C341	1-164-159-11	CERAMIC	0.1uF		50V
C342	1-124-589-11	ELECT	47uF	20%	16V
C345	1-162-205-31	CERAMIC	18PF	5%	50V
C346	1-164-159-11	CERAMIC	0.1uF		50V
C347	1-164-159-11	CERAMIC	0.1uF		50V
C348	1-164-159-11	CERAMIC	0.1uF		50V
C351	1-164-159-11	CERAMIC	0.1uF		50V
C352	1-162-208-31	CERAMIC	24PF	5%	50V
C354	1-164-159-11	CERAMIC	0.1uF		50V
C355	1-124-589-11	ELECT	47uF	20%	16V
C356	1-136-165-00	FILM	0.1uF	5%	50V
C357	1-162-205-31	CERAMIC	18PF	5%	50V
C358	1-162-205-31	CERAMIC	18PF	5%	50V
C359	1-124-995-11	ELECT	220uF	20%	10V
C360	1-164-159-11	CERAMIC	0.1uF		50V
C361	1-136-165-00	FILM	0.1uF	5%	50V
C362	1-136-165-00	FILM	0.1uF	5%	50V
C363	1-136-165-00	FILM	0.1uF	5%	50V
C364	1-136-165-00	FILM	0.1uF	5%	50V
C365	1-136-165-00	FILM	0.1uF	5%	50V
C367	1-124-995-11	ELECT	220uF	20%	10V
C400	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-125-622-11	CAP, DOUBLE LAYEYERS			0.10F
C402	1-164-159-11	CERAMIC	0.1uF		50V
C405	1-164-159-11	CERAMIC	0.1uF		50V
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-126-022-11	ELECT	47uF	20%	16V
C431	1-126-022-11	ELECT	47uF	20%	16V
C432	1-164-159-11	CERAMIC	0.1uF		50V
C433	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-162-294-31	CERAMIC	0.001uF	10%	50V
C435	1-162-294-31	CERAMIC	0.001uF	10%	50V
C436	1-162-294-31	CERAMIC	0.001uF	10%	50V
C441	1-162-294-31	CERAMIC	0.001uF	10%	50V
C442	1-162-294-31	CERAMIC	0.001uF	10%	50V
C443	1-162-294-31	CERAMIC	0.001uF	10%	50V
C444	1-126-023-11	ELECT	100uF	20%	16V
C445	1-126-023-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C471	1-164-159-11	CERAMIC	0.1uF		50V
C472	1-164-159-11	CERAMIC	0.1uF		50V
C473	1-164-159-11	CERAMIC	0.1uF		50V
C501	1-162-280-31	CERAMIC	82PF	10%	50V
C502	1-162-213-31	CERAMIC	39PF	5%	50V
C503	1-162-213-31	CERAMIC	39PF	5%	50V
C504	1-106-359-00	MYLAR	4700PF	5%	200V
C505	1-130-472-00	MYLAR	0.0012uF	5%	50V
C506	1-124-910-11	ELECT	47uF	20%	50V
C507	1-162-211-31	CERAMIC	33PF	5%	50V
C508	1-124-910-11	ELECT	47uF	20%	50V
C509	1-130-472-00	MYLAR	0.0012uF	5%	50V
C510	1-130-472-00	MYLAR	0.0012uF	5%	50V
C521	1-136-165-00	FILM	0.1uF	5%	50V
C522	1-136-165-00	FILM	0.1uF	5%	50V
C531	1-164-159-11	CERAMIC	0.1uF		50V
C532	1-164-159-11	CERAMIC	0.1uF		50V
C533	1-164-159-11	CERAMIC	0.1uF		50V
C541	1-126-024-11	ELECT	220uF	20%	16V
C542	1-126-024-11	ELECT	220uF	20%	16V
C551	1-162-280-31	CERAMIC	82PF	10%	50V
C552	1-162-213-31	CERAMIC	39PF	5%	50V
C553	1-162-213-31	CERAMIC	39PF	5%	50V
C554	1-106-359-00	MYLAR	4700PF	5%	200V
C555	1-130-472-00	MYLAR	0.0012uF	5%	50V
C556	1-124-910-11	ELECT	47uF	20%	50V
C557	1-162-211-31	CERAMIC	33PF	5%	50V
C558	1-124-910-11	ELECT	47uF	20%	50V
C559	1-130-472-00	MYLAR	0.0012uF	5%	50V
C560	1-130-472-00	MYLAR	0.0012uF	5%	50V
C581	1-164-159-11	CERAMIC	0.1uF		50V
C582	1-164-159-11	CERAMIC	0.1uF		50V
C583	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

*	CN201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P
	CN301	1-691-895-21	CONNECTOR, FFC/FPC 18P
	CN401	1-691-895-21	CONNECTOR, FFC/FPC 18P
*	CN402	1-695-068-21	CONNECTOR, FFC/FPC 15P
*	CN404	1-568-943-11	PIN, CONNECTOR 5P
*	CN406	1-568-824-11	SOCKET, CONNECTOR 5P
	CN407	1-691-889-21	CONNECTOR, FFC/FPC 11P
*	CN501	1-568-955-11	PIN, CONNECTOR 6P
	CN811	1-568-855-11	SOCKET, CONNECTOR 12P
	CN860	1-691-754-21	SOCKET, CONNECTOR 10P (H TYPE)

MAIN 10 KEY POWER SW TIMER SW

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D201	8-719-200-82	DIODE 11ES2	
D202	8-719-200-82	DIODE 11ES2	
D203	8-719-200-82	DIODE 11ES2	
D204	8-719-200-82	DIODE 11ES2	
D205	8-719-200-82	DIODE 11ES2	
D206	8-719-200-82	DIODE 11ES2	
D207	8-719-987-63	DIODE 1N4148M	
D208	8-719-987-63	DIODE 1N4148M	
D209	8-719-200-82	DIODE 11ES2	
D210	8-719-109-87	DIODE RD5.6ES-B	
D231	8-719-987-63	DIODE 1N4148M	
D232	8-719-109-85	DIODE RD5.1ES-B2	
D371	8-719-987-63	DIODE 1N4148M	
D400	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC201	8-759-630-21	IC M5290P-16	
IC203	8-759-708-12	IC NJM78L12A	
IC204	8-759-700-69	IC NJM79L12A	
IC205	8-759-900-72	IC NE5532P	
IC206	8-759-605-43	IC M5231TL	
IC207	8-759-604-86	IC M5F7807	
IC301	8-752-337-26	IC CXD2500AQ	
IC302	8-759-917-18	IC SN74HCU04AN	
IC308	8-759-977-71	IC GP-1F31T	
IC331	8-752-341-99	IC CXD2701Q	
IC332	8-759-508-41	IC MS51464-10NC	
IC351	8-752-342-65	IC CXD2560M	
IC352	8-752-351-20	IC CXD2561BM-1	
IC401	8-759-065-76	IC uPD75516GF-374-3B9	
IC402	8-759-512-81	IC LH5160N-10L	
IC403	8-759-821-32	IC CXA1291P	
IC404	8-759-065-83	IC M37470M4-089SP	
IC501	8-759-900-72	IC NE5532P	
IC551	8-759-900-72	IC NE5532P	
IC552	8-759-900-72	IC NE5532P	
		< JACK >	
J501	1-568-761-11	JACK, PIN 4P (LINE OUT)	
		< COIL >	
⚠L201	1-421-915-11	COIL, LINE FILTER	
L211	1-424-090-11	COIL, LINE FILTER	
L212	1-424-090-11	COIL, LINE FILTER	
L301	1-412-297-11	INDUCTOR 3.3uH	
L302	1-412-297-11	INDUCTOR 3.3uH	
L303	1-412-297-11	INDUCTOR 3.3uH	
L304	1-412-297-11	INDUCTOR 3.3uH	
L341	1-412-473-21	INDUCTOR 0uH	
L351	1-412-297-11	INDUCTOR 3.3uH	
L353	1-412-473-21	INDUCTOR 0uH	
L354	1-412-473-21	INDUCTOR 0uH	
L357	1-412-473-21	INDUCTOR 0uH	
L501	1-412-473-21	INDUCTOR 0uH	
L502	1-412-473-21	INDUCTOR 0uH	
		< TRANSISTOR >	
Q201	8-729-900-89	TRANSISTOR DTC144ES	
Q202	8-729-900-65	TRANSISTOR DTA144ES	
Q203	8-729-900-89	TRANSISTOR DTC144ES	
Q204	8-729-900-89	TRANSISTOR DTC144ES	
Q205	8-729-141-83	TRANSISTOR 2SA473	
Q371	8-729-900-61	TRANSISTOR DTA114ES	
Q372	8-729-900-61	TRANSISTOR DTA114ES	
Q373	8-729-900-65	TRANSISTOR DTA144ES	
Q374	8-729-900-89	TRANSISTOR DTC144ES	
Q381	8-729-900-63	TRANSISTOR DTA124ES	
Q382	8-729-900-63	TRANSISTOR DTA124ES	
Q383	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q502	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q503	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q531	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q532	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q533	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q551	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q552	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q553	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q581	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q582	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q583	8-729-231-55	TRANSISTOR 2SC2878-AB	
		< RESISTOR >	
R201	1-249-429-11	CARBON 10K 5% 1/4W	
R202	1-249-429-11	CARBON 10K 5% 1/4W	
R203	1-249-410-11	CARBON 270 5% 1/4W	
R204	1-249-429-11	CARBON 10K 5% 1/4W	
R205	1-249-429-11	CARBON 10K 5% 1/4W	
R206	1-249-410-11	CARBON 270 5% 1/4W	
R207	1-249-429-11	CARBON 10K 5% 1/4W	
R208	1-249-417-11	CARBON 1K 5% 1/4W	
R209	1-249-439-11	CARBON 68K 5% 1/4W	
R210	1-249-423-11	CARBON 3.3K 5% 1/4W	

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN **10 KEY** **POWER SW** **TIMER SW**

Ref. No.	Part No.	Description				Remark
R211	1-249-417-11	CARBON	1K	5%	1/4W	
R212	1-249-417-11	CARBON	1K	5%	1/4W	
R215	1-249-425-11	CARBON	4.7K	5%	1/4W	
R231	1-249-414-11	CARBON	560	5%	1/4W	
R300	1-249-411-11	CARBON	330	5%	1/4W	
R301	1-249-413-11	CARBON	470	5%	1/4W	
R302	1-249-405-11	CARBON	100	5%	1/4W	
R303	1-249-423-11	CARBON	3.3K	5%	1/4W	
R304	1-249-429-11	CARBON	10K	5%	1/4W	
R305	1-249-423-11	CARBON	3.3K	5%	1/4W	
R306	1-247-903-00	CARBON	1M	5%	1/4W	
R307	1-249-441-11	CARBON	100K	5%	1/4W	
R308	1-249-429-11	CARBON	10K	5%	1/4W	
R309	1-249-417-11	CARBON	1K	5%	1/4W	
R310	1-249-417-11	CARBON	1K	5%	1/4W	
R311	1-249-417-11	CARBON	1K	5%	1/4W	
R312	1-249-417-11	CARBON	1K	5%	1/4W	
R313	1-249-417-11	CARBON	1K	5%	1/4W	
R314	1-247-887-00	CARBON	220K	5%	1/4W	
R321	1-249-417-11	CARBON	1K	5%	1/4W	
R322	1-249-417-11	CARBON	1K	5%	1/4W	
R323	1-249-417-11	CARBON	1K	5%	1/4W	
R331	1-249-417-11	CARBON	1K	5%	1/4W	
R332	1-249-417-11	CARBON	1K	5%	1/4W	
R333	1-249-417-11	CARBON	1K	5%	1/4W	
R351	1-249-417-11	CARBON	1K	5%	1/4W	
R352	1-249-417-11	CARBON	1K	5%	1/4W	
R353	1-249-416-11	CARBON	820	5%	1/4W	
R354	1-249-417-11	CARBON	1K	5%	1/4W	
R355	1-249-417-11	CARBON	1K	5%	1/4W	
R356	1-249-417-11	CARBON	1K	5%	1/4W	
R357	1-249-417-11	CARBON	1K	5%	1/4W	
R358	1-249-416-11	CARBON	820	5%	1/4W	
R360	1-247-903-00	CARBON	1M	5%	1/4W	
R361	1-249-393-11	CARBON	10	5%	1/4W	
R371	1-249-441-11	CARBON	100K	5%	1/4W	
R372	1-249-441-11	CARBON	100K	5%	1/4W	
R373	1-249-441-11	CARBON	100K	5%	1/4W	
R374	1-249-425-11	CARBON	4.7K	5%	1/4W	
R375	1-249-425-11	CARBON	4.7K	5%	1/4W	
R381	1-249-441-11	CARBON	100K	5%	1/4W	
R382	1-249-441-11	CARBON	100K	5%	1/4W	
R383	1-249-441-11	CARBON	100K	5%	1/4W	
R401	1-249-411-11	CARBON	330	5%	1/4W	
R402	1-249-429-11	CARBON	10K	5%	1/4W	
R403	1-249-429-11	CARBON	10K	5%	1/4W	
R404	1-249-429-11	CARBON	10K	5%	1/4W	
R405	1-249-429-11	CARBON	10K	5%	1/4W	
R406	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R407	1-249-429-11	CARBON	10K	5%	1/4W	
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-429-11	CARBON	10K	5%	1/4W	
R410	1-249-429-11	CARBON	10K	5%	1/4W	
R411	1-249-429-11	CARBON	10K	5%	1/4W	
R412	1-249-429-11	CARBON	10K	5%	1/4W	
R413	1-249-429-11	CARBON	10K	5%	1/4W	
R414	1-249-429-11	CARBON	10K	5%	1/4W	
R415	1-249-429-11	CARBON	10K	5%	1/4W	
R416	1-249-429-11	CARBON	10K	5%	1/4W	
R417	1-249-429-11	CARBON	10K	5%	1/4W	
R418	1-249-417-11	CARBON	1K	5%	1/4W	
R419	1-249-399-11	CARBON	33	5%	1/4W	
R421	1-249-417-11	CARBON	1K	5%	1/4W	
R422	1-249-417-11	CARBON	1K	5%	1/4W	
R423	1-249-417-11	CARBON	1K	5%	1/4W	
R424	1-249-417-11	CARBON	1K	5%	1/4W	
R431	1-249-417-11	CARBON	1K	5%	1/4W	
R432	1-249-417-11	CARBON	1K	5%	1/4W	
R433	1-249-417-11	CARBON	1K	5%	1/4W	
R434	1-249-429-11	CARBON	10K	5%	1/4W	
R441	1-249-439-11	CARBON	68K	5%	1/4W	
R442	1-247-881-00	CARBON	120K	5%	1/4W	
R443	1-247-881-00	CARBON	120K	5%	1/4W	
R444	1-249-439-11	CARBON	68K	5%	1/4W	
R445	1-249-441-11	CARBON	100K	5%	1/4W	
R446	1-247-881-00	CARBON	120K	5%	1/4W	
R447	1-247-881-00	CARBON	120K	5%	1/4W	
R448	1-247-878-00	CARBON	91K	5%	1/4W	
R449	1-249-440-11	CARBON	82K	5%	1/4W	
R450	1-247-878-00	CARBON	91K	5%	1/4W	
R451	1-247-878-00	CARBON	91K	5%	1/4W	
R452	1-249-440-11	CARBON	82K	5%	1/4W	
R471	1-249-393-11	CARBON	10	5%	1/4W	
R472	1-249-393-11	CARBON	10	5%	1/4W	
R473	1-249-393-11	CARBON	10	5%	1/4W	
R503	1-249-436-11	CARBON	39K	5%	1/4W	
R504	1-249-436-11	CARBON	39K	5%	1/4W	
R505	1-249-436-11	CARBON	39K	5%	1/4W	
R506	1-249-436-11	CARBON	39K	5%	1/4W	
R507	1-249-431-11	CARBON	15K	5%	1/4W	
R508	1-249-431-11	CARBON	15K	5%	1/4W	
R509	1-249-438-11	CARBON	56K	5%	1/4W	
R510	1-249-438-11	CARBON	56K	5%	1/4W	
R511	1-249-419-11	CARBON	1.5K	5%	1/4W	
R512	1-249-419-11	CARBON	1.5K	5%	1/4W	
R513	1-249-419-11	CARBON	1.5K	5%	1/4W	
R514	1-249-422-11	CARBON	2.7K	5%	1/4W	
R515	1-249-441-11	CARBON	100K	5%	1/4W	

MAIN | 10 KEY | POWER SW | TIMER SW | TABLE MOTOR | LOADING MOTOR | OPEN/UP SW

Ref. No.	Part No.	Description				Remark
R516	1-247-828-11	CARBON	750	5%	1/4W	
R517	1-249-410-11	CARBON	270	5%	1/4W	
R518	1-247-891-00	CARBON	330K	5%	1/4W	
R519	1-249-409-11	CARBON	220	5%	1/4W	
R520	1-249-425-11	CARBON	4.7K	5%	1/4W	
R521	1-249-425-11	CARBON	4.7K	5%	1/4W	
R522	1-249-409-11	CARBON	220	5%	1/4W	
R523	1-249-393-11	CARBON	10	5%	1/4W	
R524	1-249-413-11	CARBON	470	5%	1/4W	
R525	1-249-413-11	CARBON	470	5%	1/4W	
R531	1-249-425-11	CARBON	4.7K	5%	1/4W	
R532	1-249-425-11	CARBON	4.7K	5%	1/4W	
R533	1-249-421-11	CARBON	2.2K	5%	1/4W	
R534	1-249-425-11	CARBON	4.7K	5%	1/4W	
R535	1-247-836-11	CARBON	1.6K	5%	1/4W	
R536	1-247-832-11	CARBON	1.1K	5%	1/4W	
R547	1-249-405-11	CARBON	100	5%	1/4W	
R548	1-249-405-11	CARBON	100	5%	1/4W	
R553	1-249-436-11	CARBON	39K	5%	1/4W	
R554	1-249-436-11	CARBON	39K	5%	1/4W	
R555	1-249-436-11	CARBON	39K	5%	1/4W	
R556	1-249-436-11	CARBON	39K	5%	1/4W	
R557	1-249-431-11	CARBON	15K	5%	1/4W	
R558	1-249-431-11	CARBON	15K	5%	1/4W	
R559	1-249-438-11	CARBON	56K	5%	1/4W	
R560	1-249-438-11	CARBON	56K	5%	1/4W	
R561	1-249-419-11	CARBON	1.5K	5%	1/4W	
R562	1-249-419-11	CARBON	1.5K	5%	1/4W	
R563	1-249-419-11	CARBON	1.5K	5%	1/4W	
R564	1-249-422-11	CARBON	2.7K	5%	1/4W	
R565	1-249-441-11	CARBON	100K	5%	1/4W	
R566	1-247-828-11	CARBON	750	5%	1/4W	
R567	1-249-410-11	CARBON	270	5%	1/4W	
R568	1-247-891-00	CARBON	330K	5%	1/4W	
R569	1-249-409-11	CARBON	220	5%	1/4W	
R570	1-249-425-11	CARBON	4.7K	5%	1/4W	
R571	1-249-425-11	CARBON	4.7K	5%	1/4W	
R572	1-249-409-11	CARBON	220	5%	1/4W	
R573	1-249-393-11	CARBON	10	5%	1/4W	
R574	1-249-413-11	CARBON	470	5%	1/4W	
R575	1-249-413-11	CARBON	470	5%	1/4W	
R581	1-249-425-11	CARBON	4.7K	5%	1/4W	
R582	1-249-425-11	CARBON	4.7K	5%	1/4W	
R583	1-249-421-11	CARBON	2.2K	5%	1/4W	
R584	1-249-425-11	CARBON	4.7K	5%	1/4W	
R585	1-247-836-11	CARBON	1.6K	5%	1/4W	
R586	1-247-832-11	CARBON	1.1K	5%	1/4W	

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S811	1-554-303-21	SWITCH, TACTILE (CONTINUE)	
S812	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S813	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S814	1-554-303-21	SWITCH, TACTILE (BANK)	
S815	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S816	1-554-303-21	SWITCH, TACTILE (DISC 1)	
S817	1-554-303-21	SWITCH, TACTILE (DISC 2)	
S818	1-554-303-21	SWITCH, TACTILE (DISC 3)	
S819	1-554-303-21	SWITCH, TACTILE (DISC 4)	
S820	1-554-303-21	SWITCH, TACTILE (DISC 5)	
S821	1-572-714-11	SWITCH, PUSH (POWER)	
S822	1-570-157-51	SWITCH, SLIDE (TIMER)	
S860	1-554-303-21	SWITCH, TACTILE (8)	
S861	1-554-303-21	SWITCH, TACTILE (FADER)	
S862	1-554-303-21	SWITCH, TACTILE (7)	
S863	1-554-303-21	SWITCH, TACTILE (TIME/MEMO)	
S864	1-554-303-21	SWITCH, TACTILE (6)	
S865	1-554-303-21	SWITCH, TACTILE (ERASE)	
S866	1-554-303-21	SWITCH, TACTILE (LEVEL FILE)	
S867	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)	
S868	1-554-303-21	SWITCH, TACTILE (2)	
S869	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)	
S870	1-554-303-21	SWITCH, TACTILE (1)	
S871	1-554-303-21	SWITCH, TACTILE (FILE)	
S872	1-554-303-21	SWITCH, TACTILE (CLEAR)	
S873	1-554-303-21	SWITCH, TACTILE (9)	
S874	1-554-303-21	SWITCH, TACTILE (>10)	
S875	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)	
S876	1-554-303-21	SWITCH, TACTILE (10)	
S877	1-554-303-21	SWITCH, TACTILE (CHECK)	
S878	1-554-303-21	SWITCH, TACTILE (5)	
S879	1-554-303-21	SWITCH, TACTILE (3)	
S880	1-554-303-21	SWITCH, TACTILE (4)	
		< VIBRATOR >	
X351	1-579-314-11	VIBRATOR, CRYSTAL (22.5792MHz)	
X400	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)	
X431	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
**********			
*	1-638-729-11	TABLE MOTOR BOARD	
		**********	
*	1-638-730-11	LOADING MOTOR BOARD	
		**********	
*	1-638-731-11	OPEN/UP SW BOARD	
		**********	

TABLE MOTOR | LOADING MOTOR | OPEN/UP SW

Ref. No.	Part No.	Description	Remark
		< CAPACITOR >	
C704	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C705	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
		< CONNECTOR >	
CN705	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P	
* CN707	1-573-044-11	SOCKET, CONNECTOR 5P	
		< DIODE >	
D701	8-719-970-19	DIODE GP-1A521	
		< RESISTOR >	
R701	1-249-416-11	CARBON 820 5% 1/4W	
		< SWITCH >	
S702	1-571-300-21	SWITCH, ROTARY (OPEN/UP)	
		**********	
		MISCELLANEOUS	
		**********	
5	1-690-788-11	WIRE (FLAT TYPE) (18 CORE)	
7	1-690-789-11	WIRE (FLAT TYPE) (12 CORE)	
10	1-690-849-11	WIRE (FLAT TYPE) (11 CORE)	
⚠57	1-590-836-11	CORD, POWER	
* 108	1-452-538-11	MAGNET	
114	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
164	1-644-720-11	PC BOARD, FLEXIBLE	
171	1-694-003-11	JAMPER, FILM (WITH TARMINAL)	
⚠203	8-848-144-11	DEVICE, OPTICAL PICK-UP (KSS-240A)	
204	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M1	X-4917-523-3	BASE ASSY (SPINDOLE MOTOR)	
M2	X-4917-504-1	MOTOR ASSY (SLED)	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	
M702	A-4604-871-A	MOTOR ASSY, LOADING	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (DOWN)	
⚠T901	1-450-542-11	TRANSFORMER, POWER	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-465-728-11	REMOTE COMMANDER	
	1-558-271-11	CORD, CONNECTION	
	3-707-584-01	COVER, BATTERY	
	3-755-136-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-755-136-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	4-937-945-01	PLATE (TRANSPORT), LOCK	
*	4-944-110-01	CUSHION (FRONT)	
*	4-944-111-01	CUSHION (REAR)	
*	4-949-235-01	HOOK	
*	4-952-383-01	INDIVIDUAL CARTON	
		**********	
		HARDWARE LIST	
		**********	
#1	7-621-255-15	SCREW +P 2X3	
#2	7-682-547-04	SCREW +BVTT 3X6 (S)	
#3	7-682-548-04	SCREW +BVTT 3X8 (S)	
#4	7-682-554-04	SCREW +B 3X25	
#5	7-682-661-09	SCREW +PSW 4X8	
#6	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT	
#7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#8	7-685-647-79	SCREW, TAPPING	

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-957-247-11

Sony Corporation
Audio Group

English
92E0235-1
Printed in Japan
©1992.5
Published by Customer Relations and Service Group

CDP-C725

SONY
SERVICE MANUAL

US Model
Canadian Model

SUPPLEMENT-1

File this supplement with the service manual.

Block Diagram

9-957-247-81

Sony Corporation
Audio Group

English
92G0235-1
Printed in Japan
© 1992.7
Published by Customer Relations and Service Group

BLOCK DIAGRAM